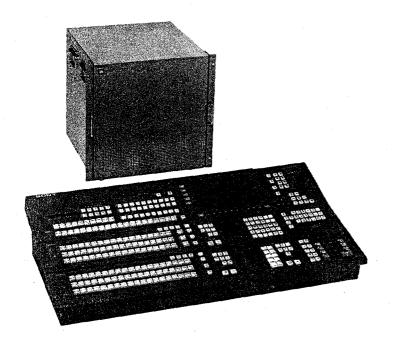
SONY

DIGITAL VIDEO SWITCHER

DVS-6000/6000C

SWITCHER CONTROL PANEL

BKDS-6010



BKDS-6050 BKDS-6060 BKDS-6061 BKDS-6062 BKDS-6063 BKDS-6064 BKDS-6070 BKDS-6071

BKDS-6072 BKDS-6090 BKDS-8022

INSTALLATION AND MAINTENANCE MANUAL Part 2
1st Edition
Serial No. 10001 and Higher

For customers in the U.S.A.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC rules.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

For the customers in the U.S.A.

Changing the voltage selector may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in radio interference regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A, pour bruits radioélectriques. Tel que spécifiér dans le reglement sur le brouillage radioélectrique.

Bescheinigung des Herstellers

Hiermit wird bescheinigt, daß die Digital-Video-Schalteinheit DVS-6000C in Übereinstimmung mit den Bestimmungen der BMPT-Amtsblatt Vfg 243/1991 und Vfg 46/1992 funkenstört ist. Der vorschriftsmäßige Betrieb mancher Geräte (z.B.Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung. Dem Bundesamt für Zulassungen in der Telekommunikation wurde das inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestmmungen eingeräumt.

Sony Deutschland GmbH Hugo Eckener Str 20 D-5000 Köin 30

Hinweis

Gemäß der Amtsblätter des BMPT Nm. 61/1991 und 6/ 1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengestellte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß.

SAFETY CHECK-OUT

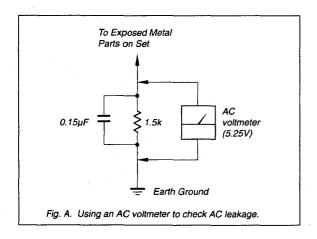
After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the metal trim, "metallized" knobs. screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5mA. Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25V so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20V AC range are suitable. (See Fig. A)



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このマニュアルについて

本書の目的

本書はデジタルビデオスイッチャDVS-6000/6000Cとその別売アクセサリのBKDS-6010などのインストレーション・アンド・メンテナンスマニュアル パート2です。

本書はサービスエンジニアの方々にご使用していただくことを想定し、本機の部品レベルまでのサービスを前提とした情報(調整 要項、回路図、マウント図、詳細パーツリスト等)を記載しています。

構成

本書の構成を把握していただくために、全章の概略を以下に説明します。

インストレーション・アンド・メンテナンスマニュアル パート2

第1章/SEC.1 電気調整/ELECTRICAL ALIGNMENT

プリント基板内の部品交換をした場合などで、基板を調整する必要が生じた場合に、パーソナルコンピュータを使用した調整方法を説明しています。

SEC. 2 BLOCK DIAGRAMS(DVS-6000/6000C)

本機全体および、プリント基板ごとの機能構成をまとめて掲載しています。

SEC. 3 SCHEMATIC DIAGRAMS(DVS-6000/6000C)

全プリント基板の回路図を概ね、スロットの順番で掲載しています。マザー基板とフレーム回路図は、本章の最後の部分にあります。

SEC. 4 BOARD LAYOUTS(DVS-6000/6000C)

全プリント基板のパターンとシンボル図を、回路図と概ね同じ順で掲載しています。

SEC. 5 BLOCK DIAGRAM(BKDS-6010)

プリント基板ごとの機能構成をまとめて掲載しています。

SEC. 6 SCHEMATIC DIAGRAMS(BKDS-6010)

全プリント基板の回路図をアルファベット順で掲載しています。フレーム回路図は、本章の最後の部分にあります。

SEC.7 BOARD LAYOUTS(BKDS-6010)

全プリント基板のパターンとシンボル図を、回路図と概ね同じ順で掲載しています。

SEC. 8 SEMICONDUCTOR PIN ASSIGNMENTS

使用半導体の外形、およびICについては概略の機能ブロックや、ピン名称を掲載しています。

SEC.9 SPARE PARTS AND FIXTURES

使用部品のうち、サービス対象に指定されている部品や、必要な工具類などを掲載しています。

インストレーション・アンド・メンテナンスマニュアル パート1

第1章 取り扱い操作

第2章 設置

第3章 サービスインフォメーション

第4章 主要部品の交換(BKDS-6010)

報を記載したマニュアルです。

第5章 トラブルシューティング(BKDS-6010)

第6章 SPARE PARTS AND FIXTURES FOR USERS

関連マニュアル

本機にはこの「インストレーション・アンド・メンテナンスマニュアル パート2」の他に下記のマニュアルが用意されています。

ユーザーガイド(BZS-6010に付属しています。)

本機を実際に運用および操作するのに必要なマニュアルです。

◆ インストレーション・アンド・メンテナンスマニュアル パート1(本機に付属しています。)本機の納入設定時に必要な項目、点検および保守に関する情報、主なブロックおよび基板交換によるサービスを前提とした情

Introducing this manual;

Purpose of this manual

This manual is the Installation and Maintenance Manual Part2 of the digital video switcher model DVS-6000/6000C and the optional accessory model BKDS-6010 and so on.

This manual is intended for service engineers and contains the information(alignment, schematic diagrams, board layouts and parts list) required for servicing by component(s).

Contents:

Installation and Maintenance Manual Part2

Section 1. ELECTRICAL ALIGNMENT

Describes the alignment procedure using personal computer, of circuit board needed in such a case when replacing component(s) of a printed circuit board.*This section is going to be published as supplement shortly.

Section 2. BLOCK DIAGRAMS(DVS-6000/6000C)

Describes functions of entire machine and of each circuit board in the form of block diagrams.

Section 3. SCHEMATIC DIAGRAMS(DVS-6000/6000C)

Describes schematic diagrams of all printed circuit board in the order of slot numbers. Mother board and frame schematic diagrams are shown in the end of this section.

Section 4. BOARD LAYOUTS(DVS-6000/6000C)

Printed circuit pattern of all circuit boards and their printed symbols are shown in the almost same order of schematic diagrams.

Section 5. BLOCK DIAGRAMS(BKDS-6010)

Describes functions of each circuit board in the form of block diagrams.

Section 6. SCHEMATIC DIAGRAMS(BKDS-6010)

Describes schematic diagrams of all printed circuit board in the alphabetical order. Frame schematic diagram is shown in the end of this section.

Section 7. BOARD LAYOUTS(BKDS-6010)

Printed circuit pattern of all circuits boards and their printed symbols are shown in the almost same order of schematic diagrams.

Installation and Maintenance Manual Part1

Section 1. OPERATION

Section 2. INSTALLATION

Section 3. SERVICE INFORMATION

Section 4. REPLACEMENT OF MAIN PARTS(BKDS-6010)

Section 5. TROUBLE SHOOTING(BKDS-6010)

Section 6. SPARE PARTS AND FIXTURES FOR USERS

Related manuals

In addition to this Installation and Maintenance Manual Part2, a Guide and a Manual are provided.

- User's Guide (which is packed together with BZS-6020.)
 - This Guide explains how to operate this equipment.
- Installation and Maintenance Manual Part1 (which is packed together with the unit.)
 This Manual contains the information required for initial installation, for check and maintenance and for servicing by block replacement and/or circuit board replacement.

目次 TABLE OF CONTENTS

. 電気調整		LE-118 Board	3-1/
(近日発行)		LED	
1,000,000		SD-30 Board	3-19
. ELECTRICAL ALIGNMENT		Digital Edit PVW/REF Output (BKDS-6060)	
		DA-71 Board	3-23
(Section 1 will be available)		Analog Edit PVW/REF Output (BKDS-6061)	
		· DVS-6000 Only	
VS-6000/6000C		DA-72 Board	3-27
BLOCK DIAGRAMS		Analog Edit PVW/REF Output (BKDS-6062)	
OVERALL Block (DVS-6000)	2-1	· · · · · · · · · · · · · · · · · · ·	
OVERALL Block (DVS-6000C)		: DVS-6000C Only WKG-10 Board	2_21
CPU-147 Block			3-31
	2-0	Wipe Generator	0.00
CPU	0.4	WP-37 BOARD	3-39
SG-210 Block	2-4	Enhanced Wipe Generator (BKDS-6070)	
D-2 Sync Generator: DVS-6000 Only		KPC-5 Board	3-45
SG-211 Block	2-5	Key Processor	
D-1 Sync Generator: DVS-6000C Only		BD-22 Board	3-51
SD-30 Block	2-6	Key Border Generator (BKDS-6071)	
Digital Edit PVW/REF Output (BKDS-6060)		MIX-8 Board	3-53
DA-71 Block	2-7	Mixer	
Analog Edit PVW/REF Output (BKDS-6061)		DSK-9 Board	3-50
: DVS-6000 Only			0 00
DA-72 Block	20	DSK	0.07
	2-0	OUT-3 Board	3-67
Analog Edit PVW/REF Output (BKDS-6062)		Output Processor	
: DVS-6000C Only		SD-31 Board	3-71
WKG-10 Block	2-9	Digital Edit PVW/REF Output (BKDS-6063)	
Wipe Generator		DA-73 Board	3-73
WP-37 Block	2-9	Analog Output (BKDS-6064): DVS-6000 Only	
Enhanced Wipe Generator (BKDS-6070)		MAT-4 Board	3-75
KPC-5 Block	2-10	Matte Generator	
Key Processor			3.77
BD-22 Block	2-10	MT-90 Board	3-77
BU-22 Block(BKDC 6074)	2-10	BKGD Color Mix Generator (BKDS-6072)	0.70
Key Border Generator (BKDS-6071)	0.44	XPT-3 Board	3-79
MIX-8/8A Block	2-11	Digital Input (BKDS-8022)	
Mixer		CN-311 Board	3-83
DSK-9/9A Block	2-12		
DSK		Output Connector CN-503 Board	3-83
OUT-3 Block	2-13	Chroma Key Input Connector: DVS-6000 Only	
Output Processor		CN-312 (A, B) Board	3-85
SD-31 Block	2-14	Primary Input Connector	
Digital Edit PVW/REF Output (BKDS-6063)		CN-843 Board	3-87
DA-73 Block	2-15		0 0,
Analog Output (BKDS-6064): DVS-6000 Only	2 10	Control Connector	2.00
	2 16	MB-482 Board	3-08
MAT-4 Block	2-10	Mother	
Matte Generator	0.40	RE-96 Board	3-9
MT-9 Block	2-16	Power Supply AC-DC	
BKGD Color Mix Generator (BKDS-6072)		FRAME	3-99
XPT-3 Block	2-17	LE-76	
Digital Input (BKDS-8022)		Power LED	
RE-96 Block	2-18	1 011 01 11 11	
Power Supply AC-DC		4. BOARD LAYOUTS	
1 Office Supply 110 DO			4.0
COUCHATIC DIACDAMS		CPU-147 Board	4-2
3. SCHEMATIC DIAGRAMS	0.0	CPU	
CPU-147 Board	3-3	SG-210 Board	4-4
CPU		D-2 Sync Generator: DVS-6000 Only	
SG-210 Board	3-9	SG-211 Board	4-6
D-2 Sync Generator: DVS-6000 Only		D-1 Sync Generator: DVS-6000C Only	
SG-211 Board	3-13	LE-118 Board	4-9
D-1 Sync Generator: DVS-6000C Only		LED	

•			
SD-30 Board		KY-244 Block	5-5
Digital Edit PVW/REF OUTPUT (BKDS-60		Switch (for BKDS-6050)	
DA-71 Board		KY-245 Block	5-5
Analog Edit PVW/REF OUTPUT (BKDS-6	061)	Switch	c
: DVS-6000 Only		KY-246 Block	5-5
DA-72 Board	4-14	Switch	F.0
Analog Edit PVW/REF OUTPUT (BKDS-6	062)	KY-240 Block	5-6
: DVS-6000C Only		Switch	E 0
WKG-10 Board	4-16	KY-241 Block	3-0
Wipe Generator		Switch KY-242 Block	E C
WP-37 BOARD	4-18		5-0
Enhanced Wipe Generator (BKDS-6070)		Switch	
KPC-5 Board	4-20		
Key Processor		6. SCHEMATIC DIAGRAMS	
BD-22 Board	4-23	CPU-131 Board	6-3
Key Border Generator (BKDS-6071)		System Control	
MIX-8 Board	4-24	IF-403 (A, B) Board	6-9
Mixer		Switch Interface (for KY-239)	
DSK-9 Board	4-26	IF-404 (A, B) Board	6-12
DSK		Switch Interface (for KY-243)	
OUT-3 Board	4-28	IF-418 Board	6-15
Output Processor		Interface (BKDS-6050)	
DA-73 Board	4-31	KY-238 Board	6-17
Analog Output (BKDS-6064): DVS-6000 (Only	Switch	
MAT-4 Board	4-32	KY-239 (A, B) Board	6-19
Matte Generator		Switch	
MT-90 Board	4-35	KY-240 Board	6-21
BKGD Color Mix Generator (BKDS-6072)		Switch	
XPT-3 Board	4-36	KY-243 Board	6-25
Digital Input (BKDS-8022)		Switch	
CN-311 Board	4-38	LE-113 Board	6-25
Output Connector		LED	
CN-503 Board	4-39	LED LE-114 Board	6-25
Chroma Key Input Connector: DVS-6000	Only ·	LED	•
CN-312 Board	4-40	KY-244 Board	6-27
Driman Innut Connector		Switch (for BKDS-6050)	
CN-843 Board	4-41	LE-115 Board	6-27
Control Connector		LED	
MB-482 Board	4-42	KY-245 Board	6-29
Mother	•	Switch	
LE-76 Board	4-44	KY-246 Board	6-29
Power LED		Switch	
RE-96 Board	4-44	FRAME	6-31
Power Supply AC-DC		CN-789	
, one, supply no be		Connector	
BKDS-6010		CN-790	
5. BLOCK DIAGRAM		Connector	
	E 1	KY-241	
CPU-131 Block	3 ~!	Switch	
System Control	E 1	KY-242	
IF-403 (A, B) Block	5-4	Switch	
Switch Interface (for KY-239)	- 4	LE-111	
KY-238 Block	5-4	LED LED	
Switch		LE-112	
KY-239 (A, B) Block	5-4	—— : :=	
Switch		LED	
IF-404 (A, B) Block	5-5		
Switch Interface (for KY-243)			
KY-243 Block	5-5		
Switch			

. BOARD LAYOUTS	
CPU-131 Board 7-2	2
System Control	
System Control IF-403 (A, B) Board	4
IF-404 (A, B) Board	6
Switch Interface (for KY-243)	•
IF-418 Board 7-5	9
Interface (BKDS-6050)	
KY-238 Board	10
Switch	10
KY-239 (A, B) Board	12
Switch KY-240 Board 7-	14
Switch	
KY-241 Board 7-	16
Switch	
KY-242 Board 7-	17
Switch KY-243 Board 7-	18
Switch	
KY-244 Board 7-	21
Switch (for BKDS-6050)	
KY-245 Board 7-	22
Switch	24
KY-246 Board 7- Switch	24
LE-111 Board 7-	25
LED	
LE-112 Board 7-	25
LED_	05
LE-113 Board 7-	.25
LED LE-114 Board 7.	-26
LED	
LE-115 Board 7-	-26
LED	^=
CN-789 Board 7	-27
LED CN-790 Board 7-	-28
LED	
8. SEMICONDUCTOR PIN ASSIGNMENTS	
A ADADE DADEO	
9. SPARE PARTS 9-1. NOTES ON SPARE PARTS9	-1
9-2. EXPLODED VIEW AND PARTS	•
(DVS-6000/6000C) 9	-2
CHASSIS 1 9	-2
CHASSIS 2 9	
POWER UNIT9	
REAR PANEL 9 9-3. EXPLODED VIEW AND PARTS (BKDS-6010) 9	
CHASSIS, POWER UNIT & REAR PANEL 9	-10
OPERATION UNIT 19	-12
OPERATION UNIT 2	9-14
OPERATION UNIT 3	
OPERATION UNIT 4)-18 200
OPERATION UNIT 5 (BKDS-6050)	2-∠ U

9-4.	ELECTRICAL PARTS LIST	9-23
	PACKING MATERIALS &	
	SUPPLIED ACCESSORIES	9-66
	(For DVS-6000/6000C)	
9-6.	PACKING MATERIALS &	
	SUPPLIED ACCESSORIES	9-67
	(For BKDS-6010)	
9-7.	OPTIONAL FIXTURE	9-67

DVS-6000/6000C

BKDS-6060(OPTION)

BKDS-6061(OPTION)

BKDS-6062(OPTION)

BKDS-6063(OPTION)

BKDS-6064(OPTION)

BKDS-6070(OPTION)

BKDS-6071(OPTION)

BKDS-6072(OPTION)

BKDS-6090(OPTION)

BKDS-8022(OPTION)

SECTION 2. BLOCK DIAGRAMS

SECTION 3. SCHEMATIC DIAGRAMS

SECTION 4. BOARD LAYOUTS

BKDS-6010 BKDS-6050(OPTION)

SECTION 5. BLOCK DIAGRAMS

SECTION 6. SCHEMATIC DIAGRAMS

SECTION 7. BOARD LAYOUTS

DVS-6000/6000C

BKDS-6010(OPTION)

BKDS-6050(OPTION)

BKDS-6060(OPTION)

BKDS-6061 (OPTION)

BKDS-6062(OPTION)

BKDS-6063(OPTION)

BKDS-6064(OPTION)

BKDS-6070(OPTION)

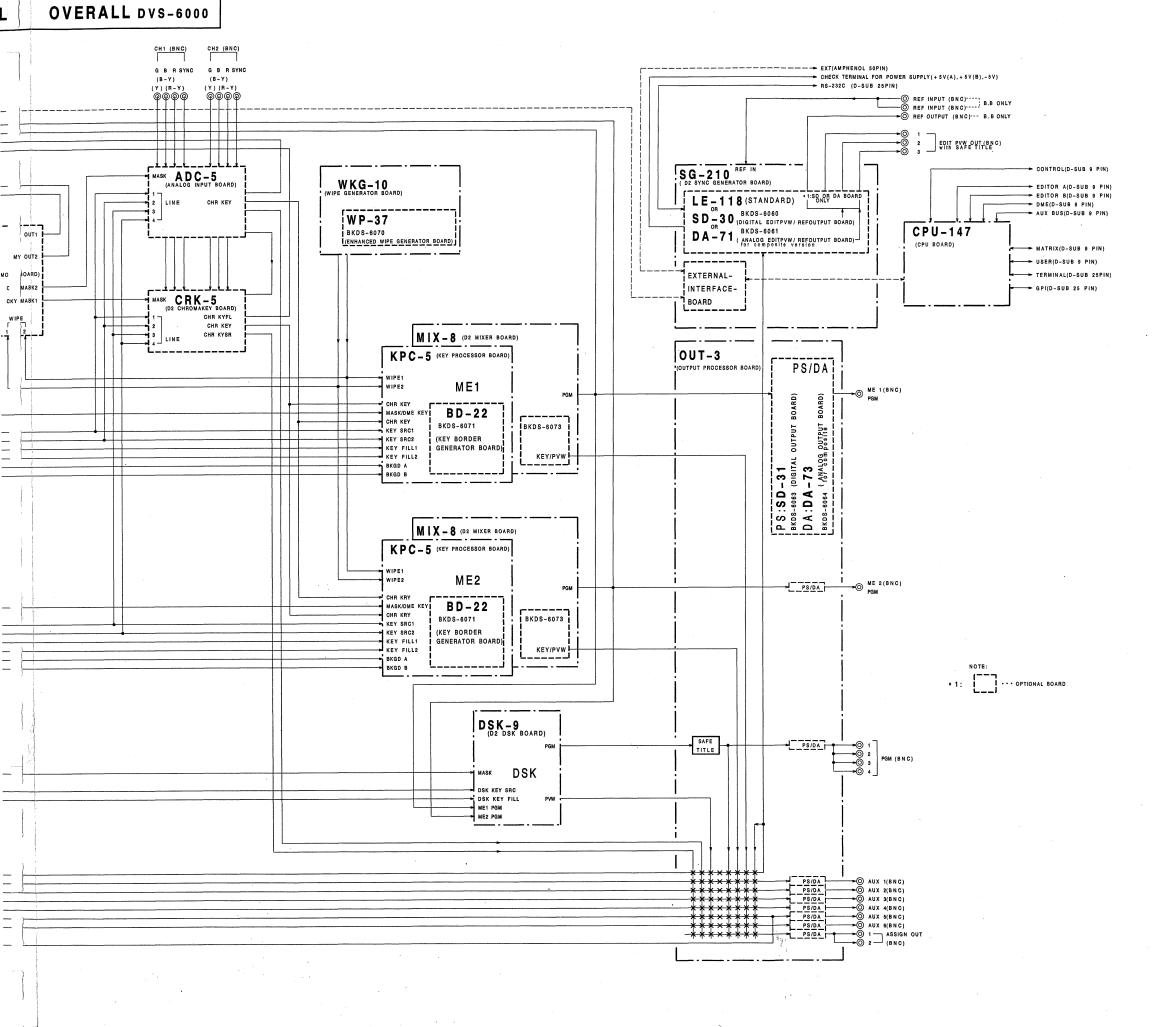
BKDS-6071(OPTION)

BKDS-6090(OPTION)

BKDS-8022(OPTION)

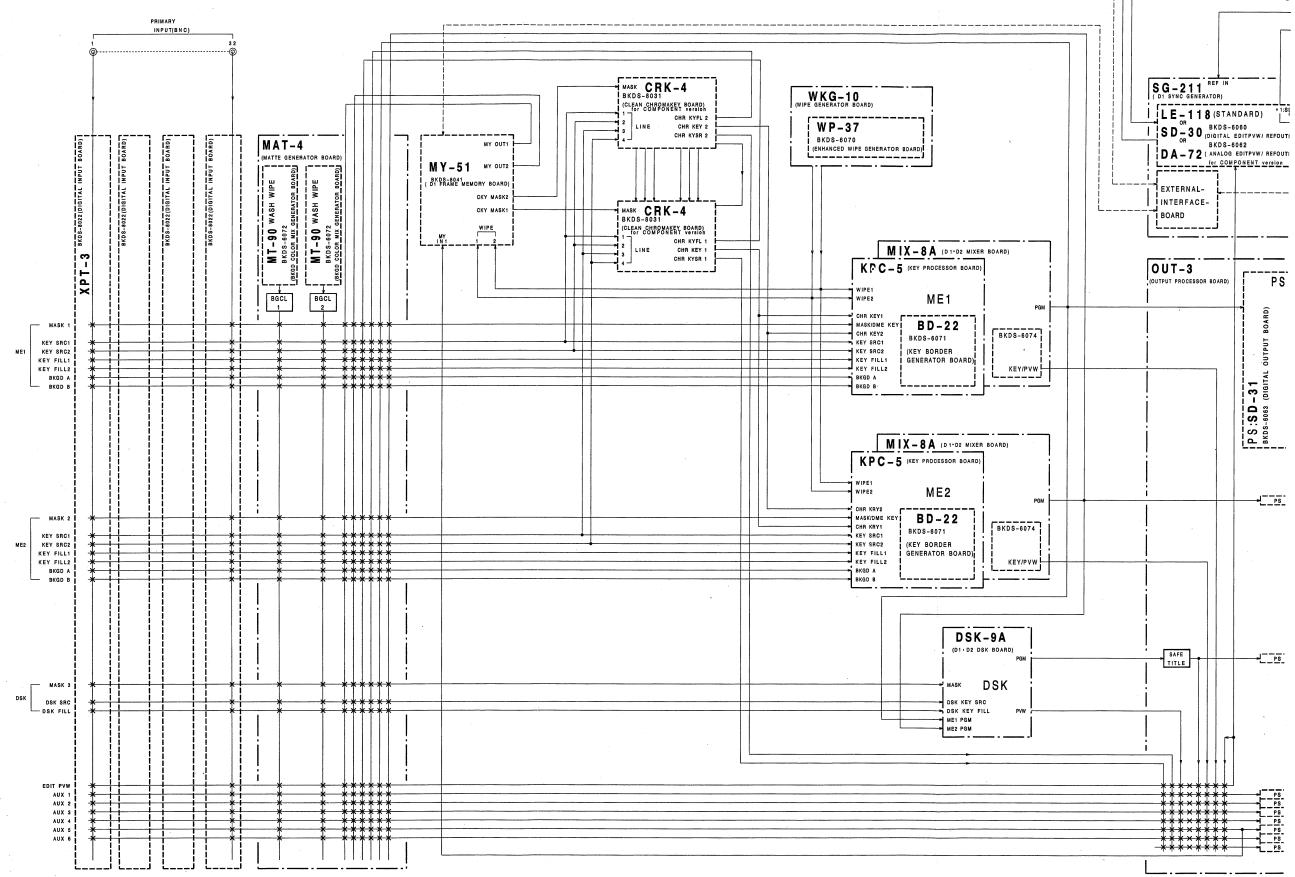
SECTION 8. SEMICONDUCTOR PIN ASSIGNMENTS SECTION 9. SPEAR PARTS

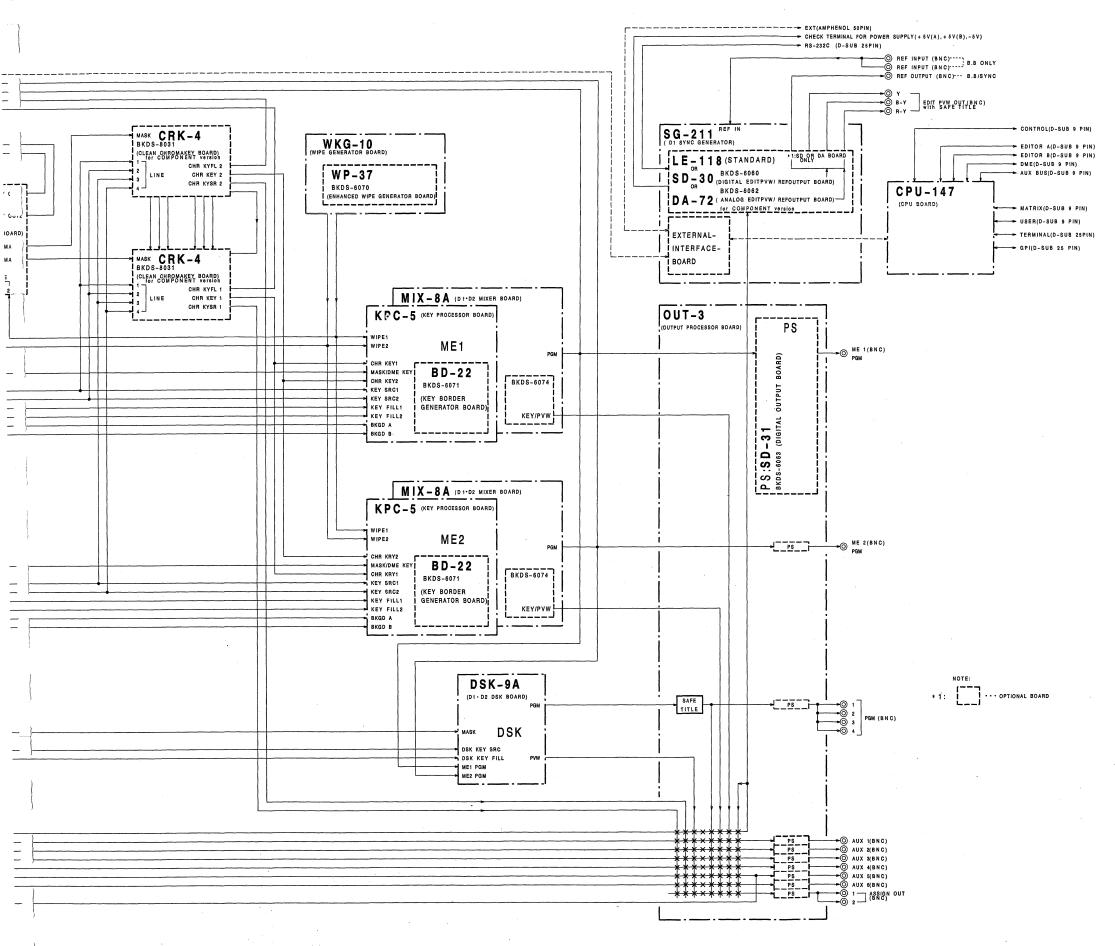
DVS-6000 OVERALL OVERALL DVS-6000 SECTION 2 **BLOCK DIAGRAMS** OVERALL (DVS-6000) (B-Y) (Y) (R-Y) @@@@ PRIMARY INPUT(BNC) SG-210
REF IN
(D2 SYNC GENERATOR BOARD) MASK ADC-5
(ANALOG INPUT BOARD) WKG-10 LE-118 (STANDARD) SD-30 (DIGITAL EDITPVW/DA -71 (ANALOG EDITPVW/COMPOSITE V) WP-37 BKDS-6070 (ENHANCED WIPE GENERATOR BOARD) MY-50 MY OUT2 EXTERNAL-CKY MASK2 INTERFACE-MASK CRK-5 BOARD MIX-8 (D2 MIXER BOARD) XPT-3 ADC-9 KPC-5 (KEY PROCESSOR BOARD) OUT-3 OUTPUT PROCESSOR BOARD BGCL 1 BGCL 2 ME1 CHR KEY MASK/DME I CHR KEY BD-22 BKDS-6071 BKD'S-6073 KEY SRC1
KEY SRC2
KEY FILL1
KEY FILL2
BKGD A
BKGD B (KEY BORDER KEY SRC2 KEY FILL1 KEY FILL2 GENERATOR BOARD) KEY/PVW -BKGD A BKGD B PS:SD-31 MIX-8 (D2 MIXER BOARD) KPC-5 (KEY PROCESSOR BOARD) ME2 MASK/DME K CHR KRY KEY SRC1 BD-22 BKDS-6073 BKDS-6071 KEY SRC1 KEY SRC2 KEY FILL1 KEY FILL2 BKGD A BKGD B KEY SRC2 KEY FILL1 KEY FILL2 (KEŸ BORDER GENERATOR BOARD) KEY/PVW -DSK-9 (D2 DSK BOARD) SAFE TITLE DSK MASK 3 DSK KEY SRC
DSK KEY FILL
ME1 PGM
ME2 PGM DSK SRC EDIT PYW AUX 1 AUX 2 AUX 3 AUX 4 AUX 5 AUX 6



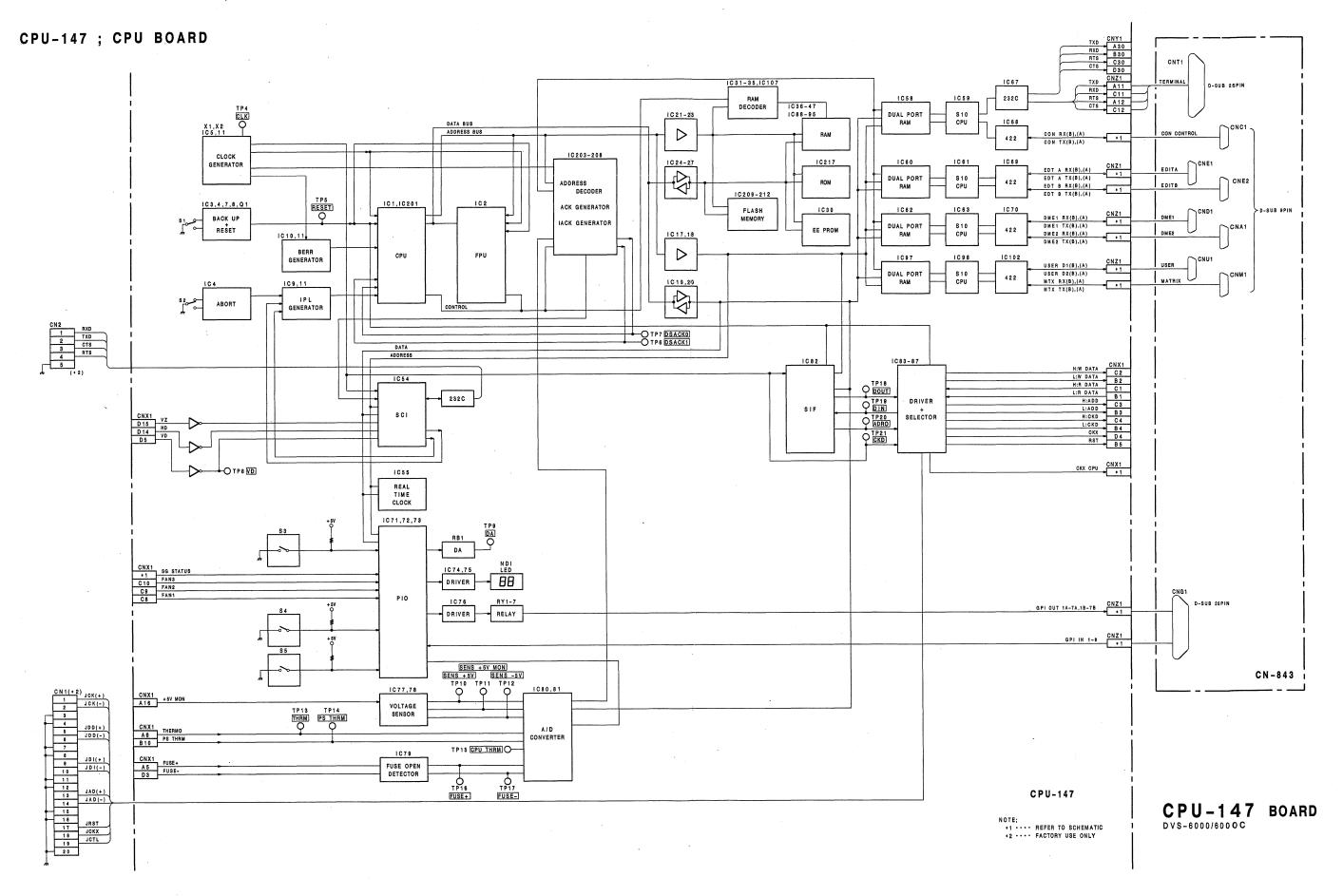
OVERALL

OVERALL (DVS-6000C)

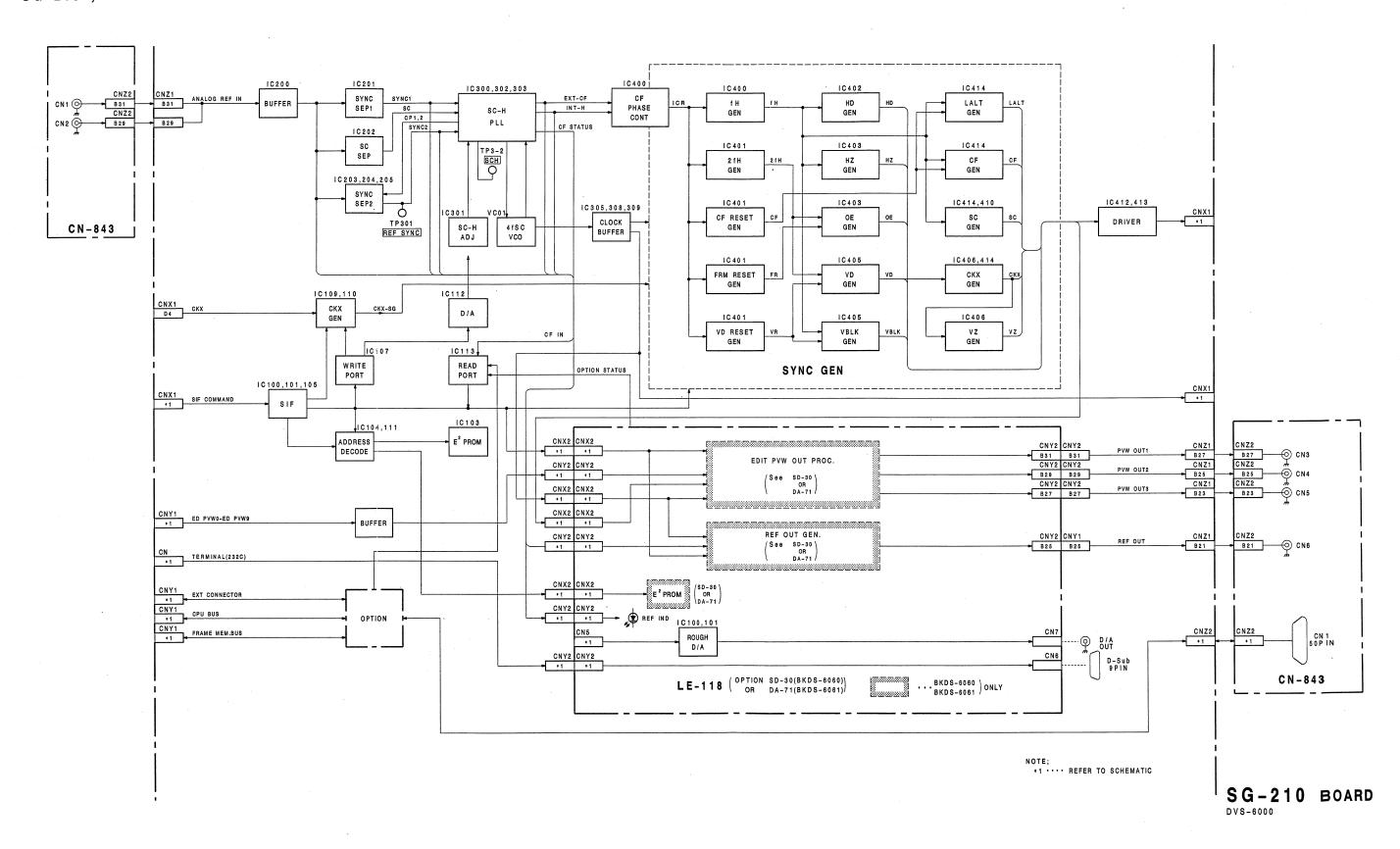




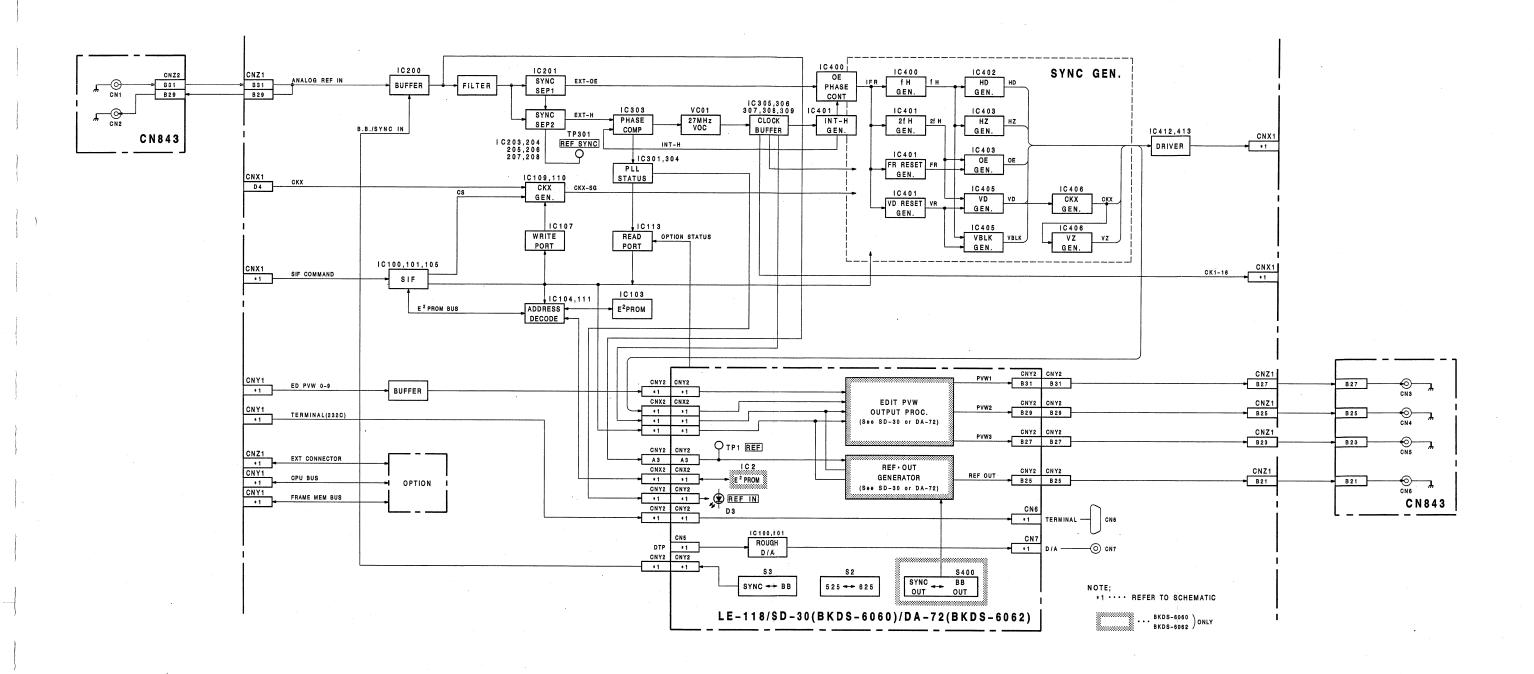
OVERALL DVS-6000C



SG-210; D-2 SYNC GENERATOR BOARD

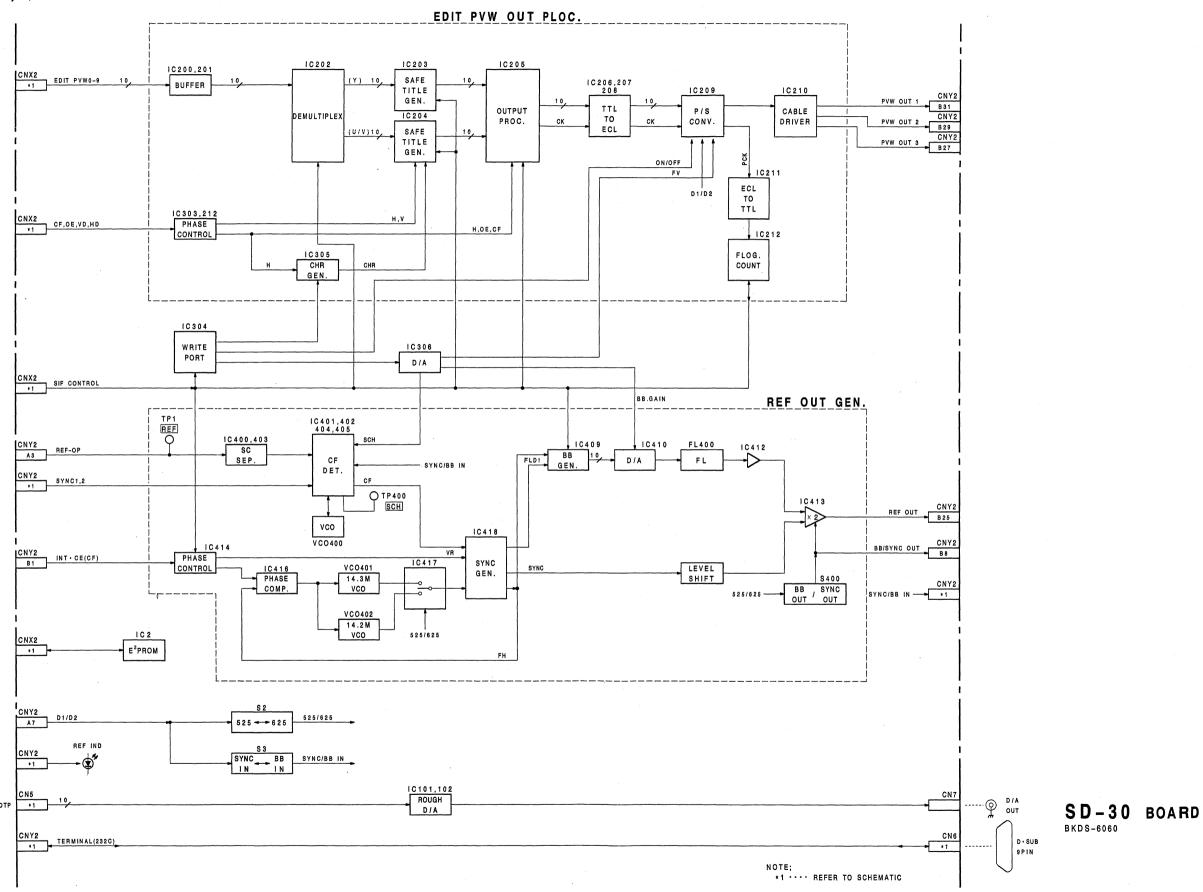


SG-211; D-1 SYNC GENERATOR BOARD

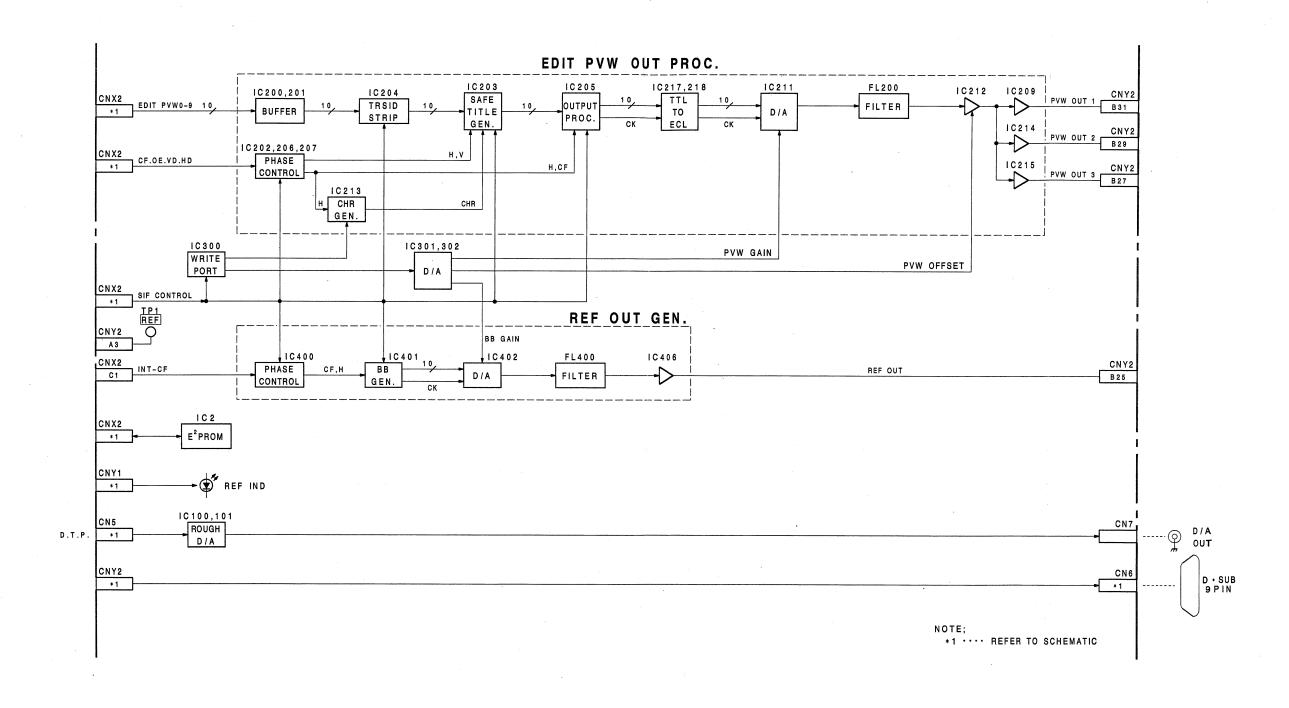


SG-211 BOARD

SD-30(BKDS-6060); DIGITAL EDIT PVW/REF OUTPUT BOARD

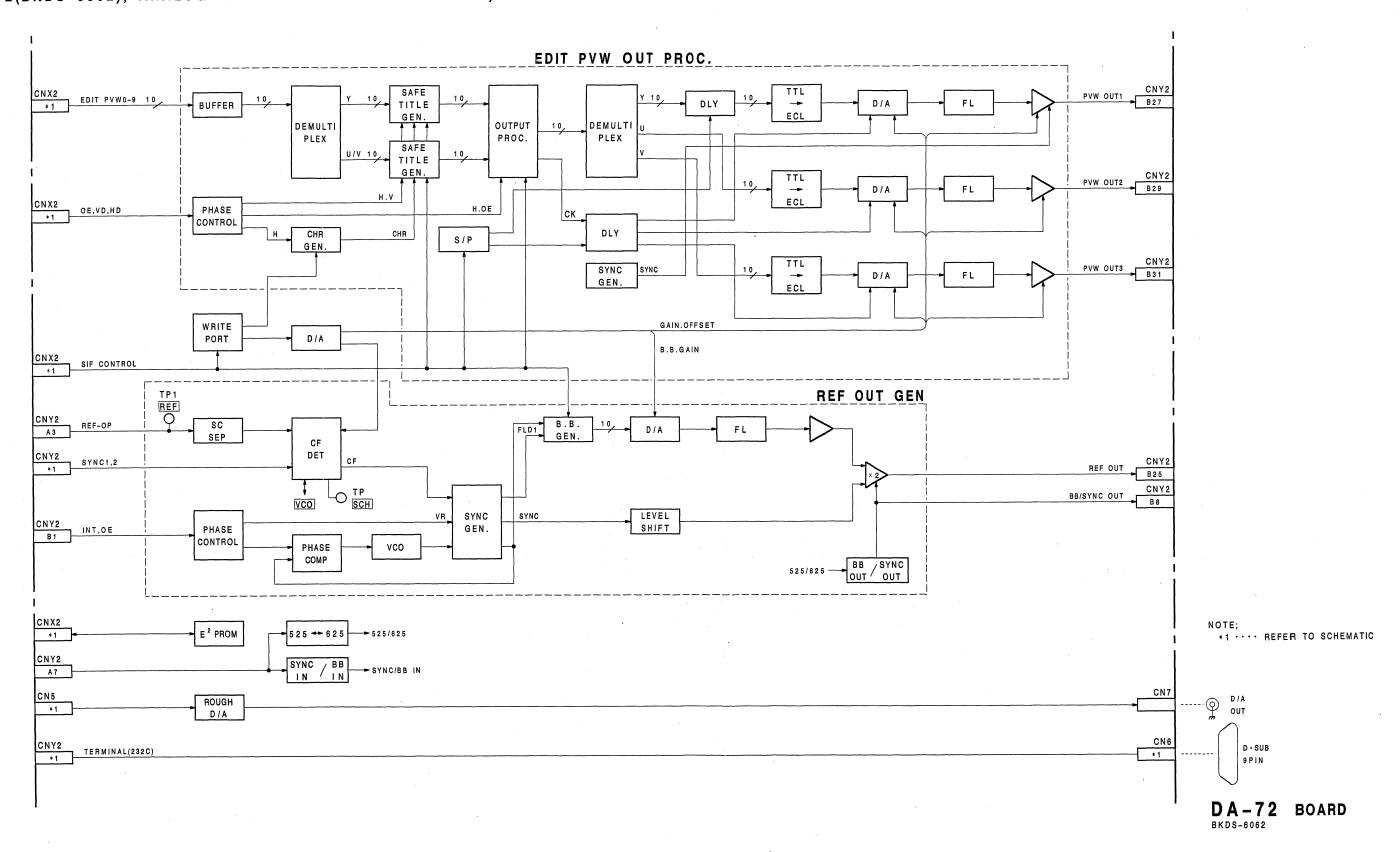


DA-71(BKDS-6061); ANALOG EDIT PVW/REF OUTPUT BOARD: DVS-6000 ONLY

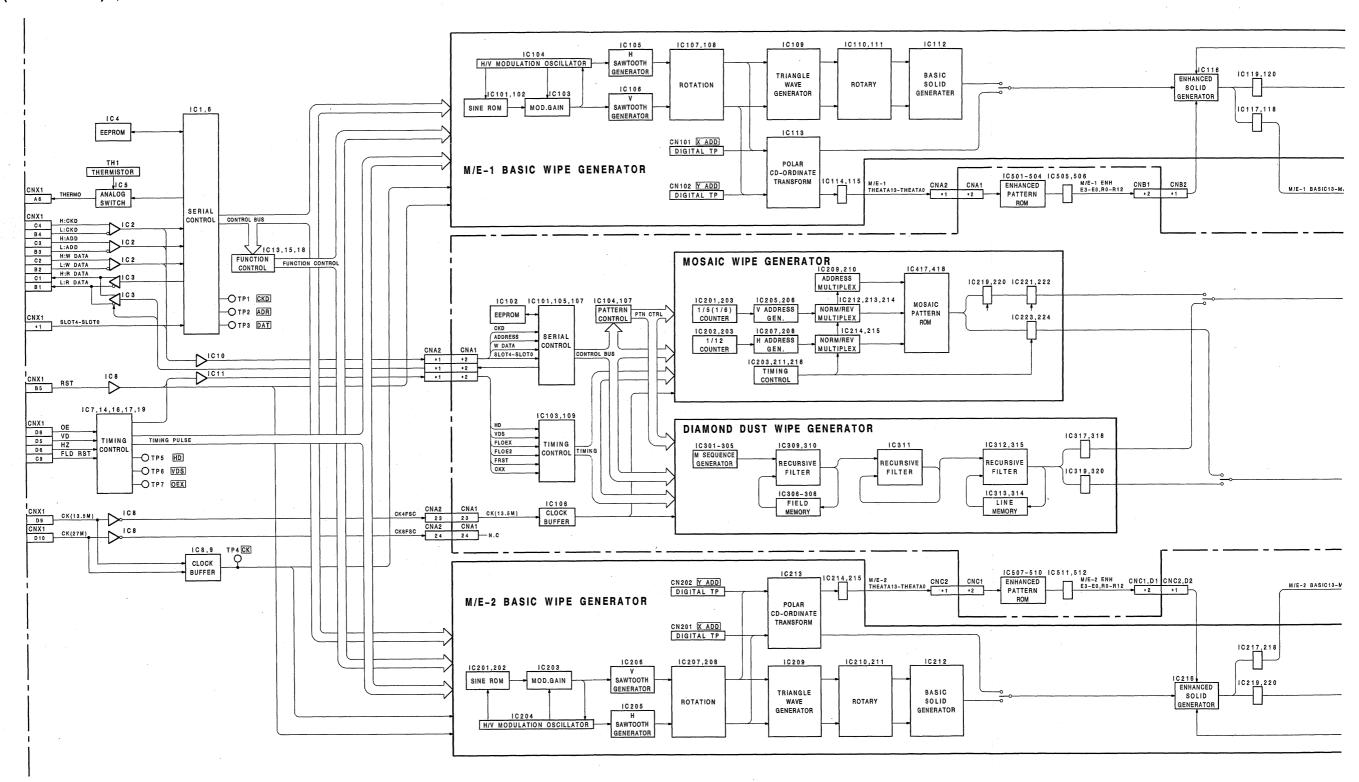


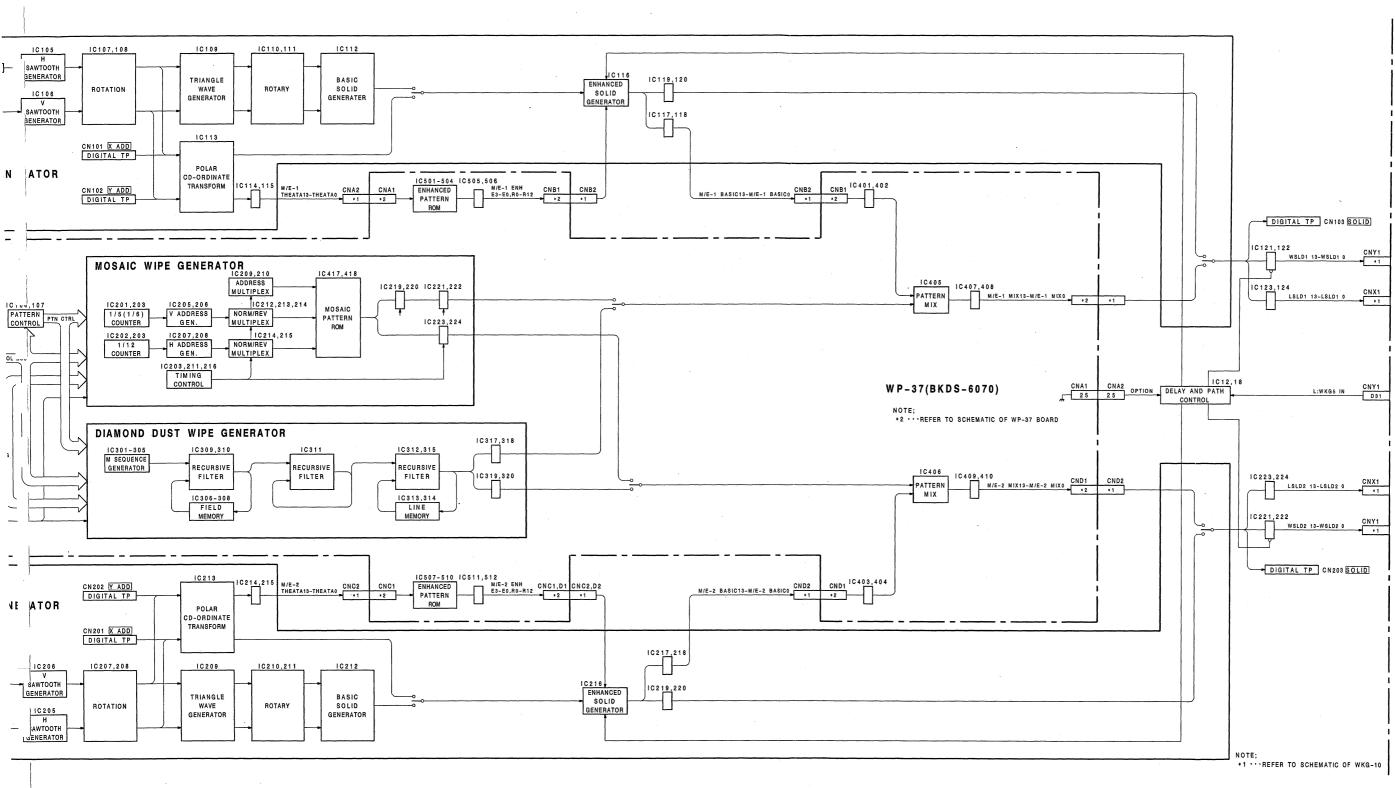
DA-71 BOARD

DA-72(BKDS-6062); ANALOG EDIT PVW/REF OUTPUT BOARD): DVS-6000C ONLY



WKG-10; WIPE GENERATOR BOARD WP-37(BKDS-6070); ENHANCED WIPE GENERATOR BOARD

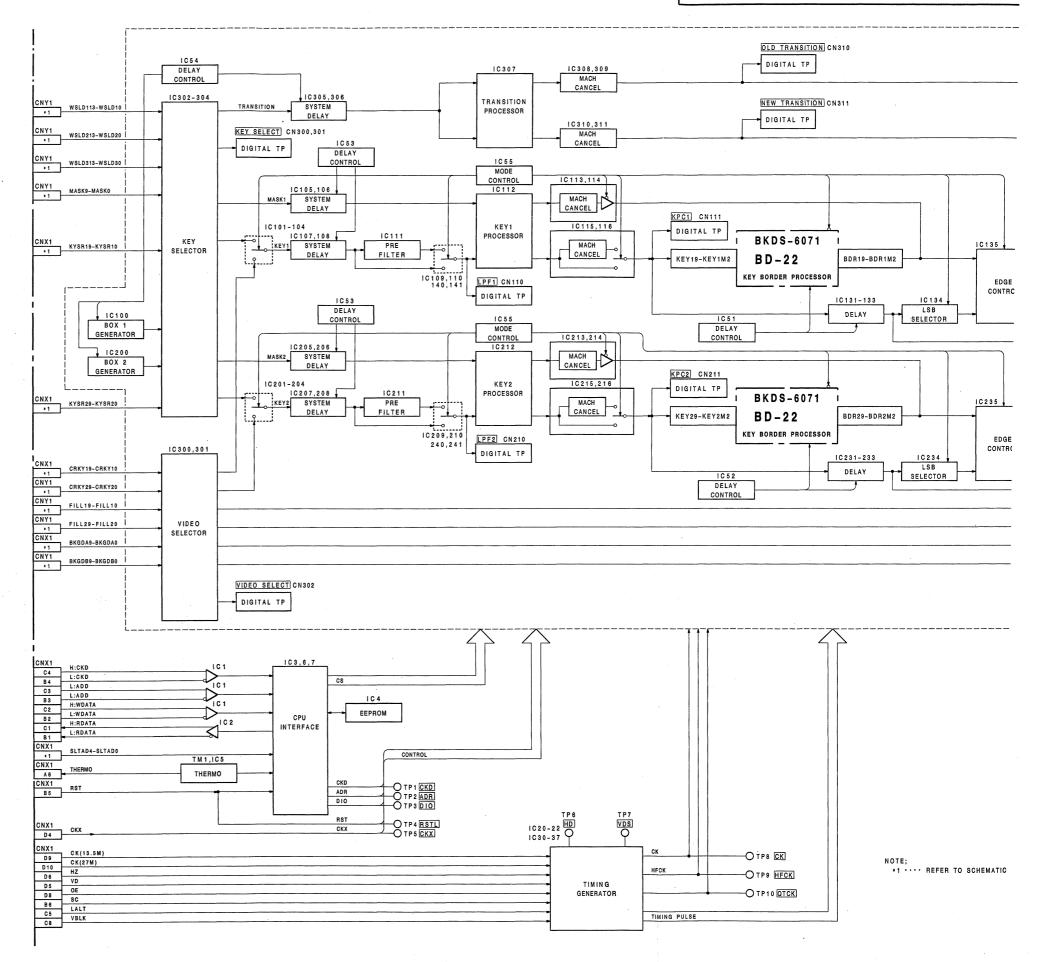




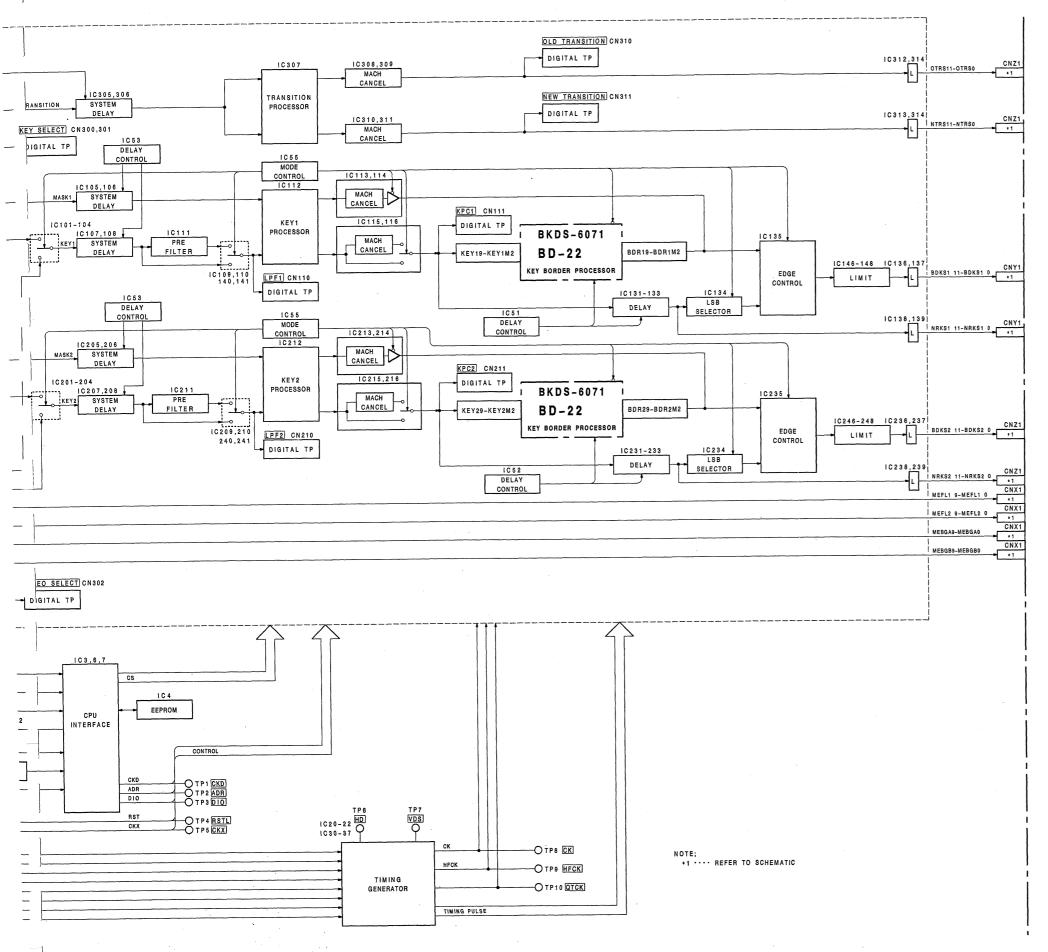
WKG-10 BOARD
DVS-6000/6000C

WP-37 BOARD
BKDS-6070

KPC-5; KEY PROCESSOR BOARD BD-22(BKDS-6071); KEY BORDER GENERATOR BOARD



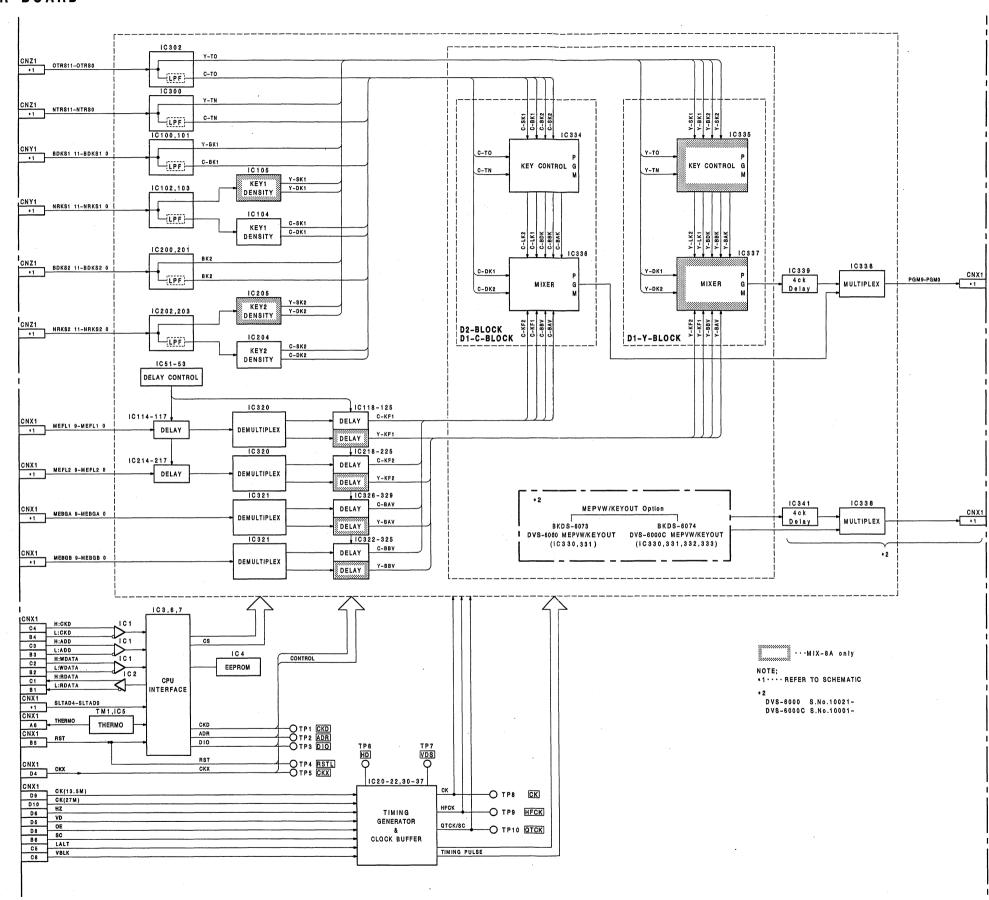
2 - 10



KPC-5 BOARD

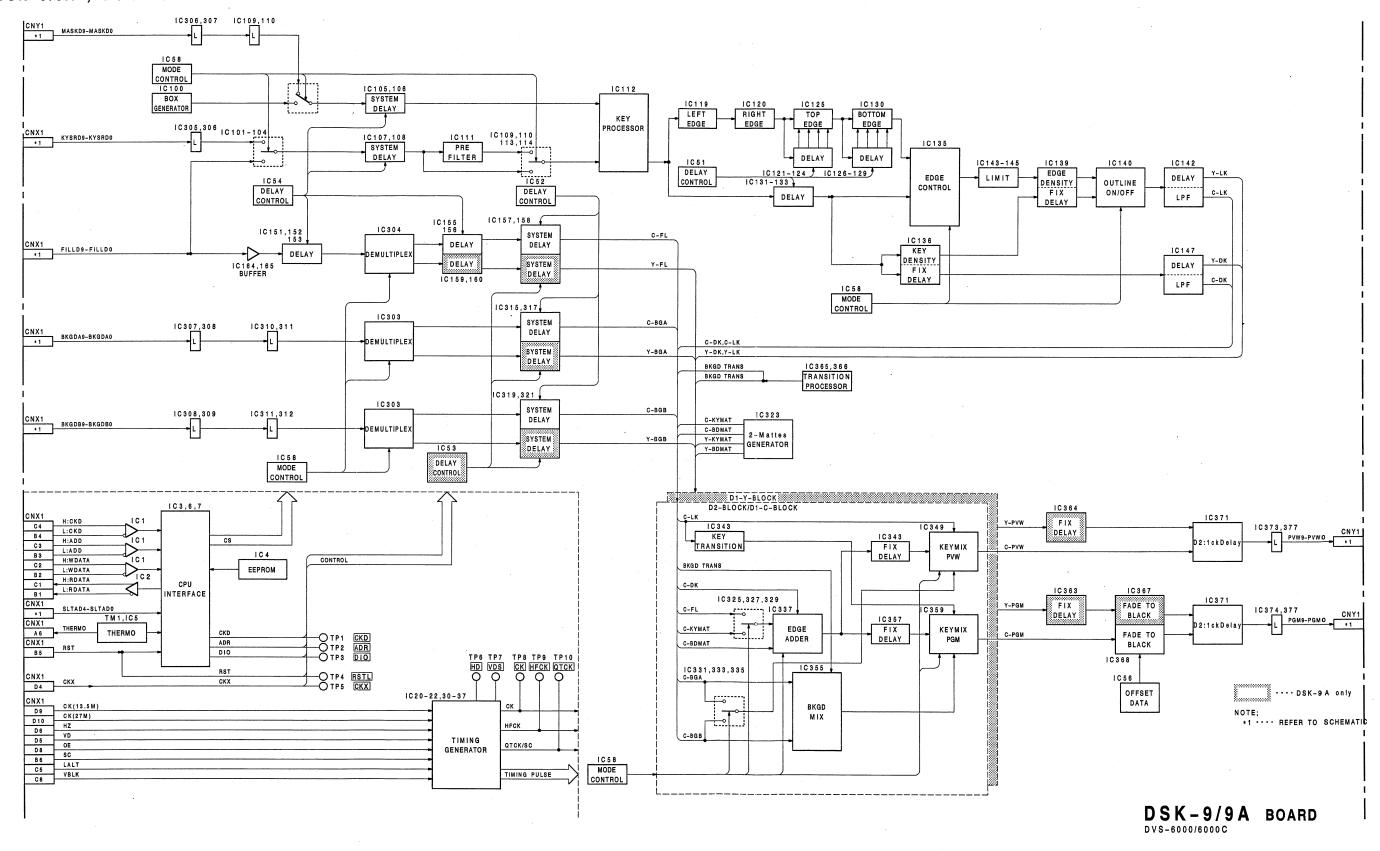
BD-22 BOARD BKDS-6071 BKDS-6071

MIX-8/8A; MIXER BOARD

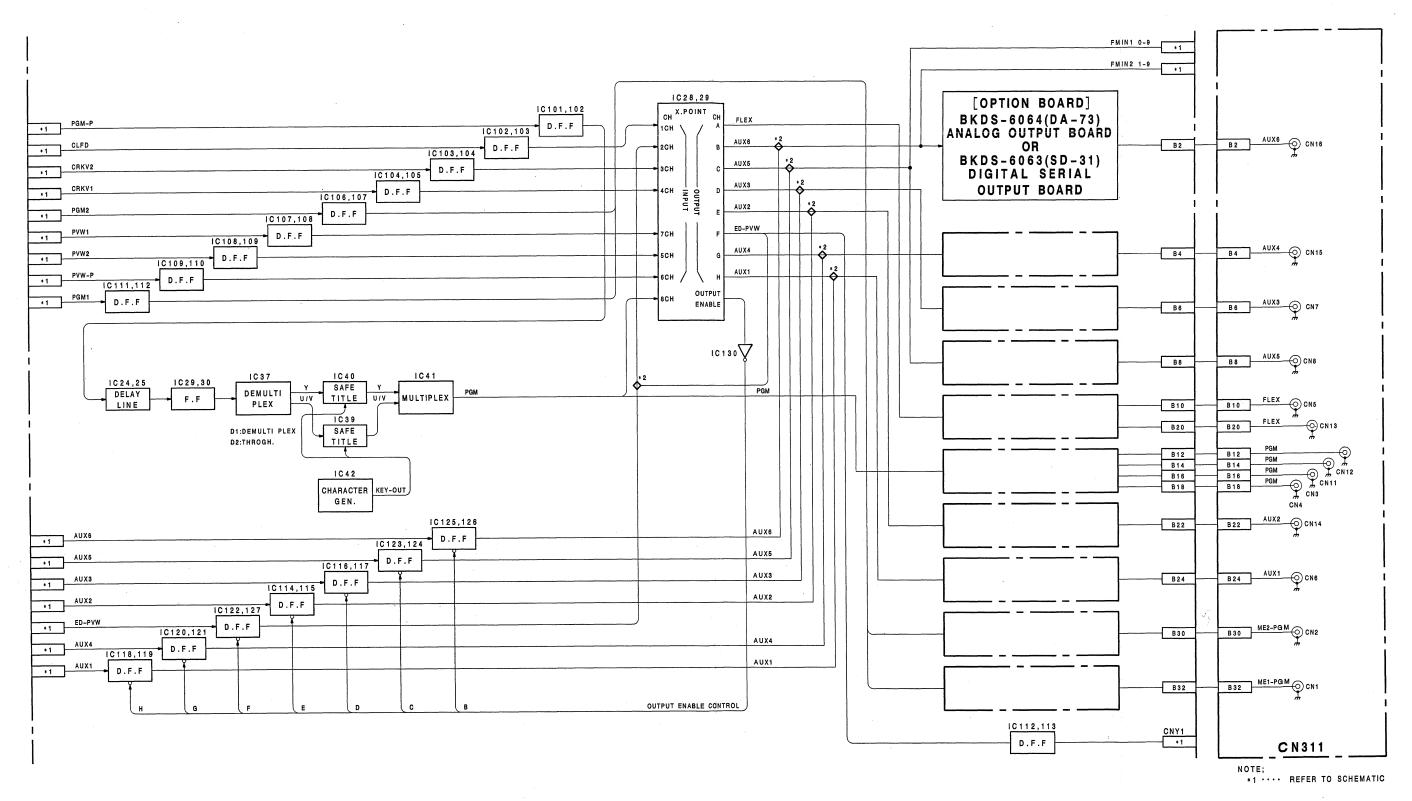


MIX-8/8 A BOARD

DSK-9/9A; DSK BOARD

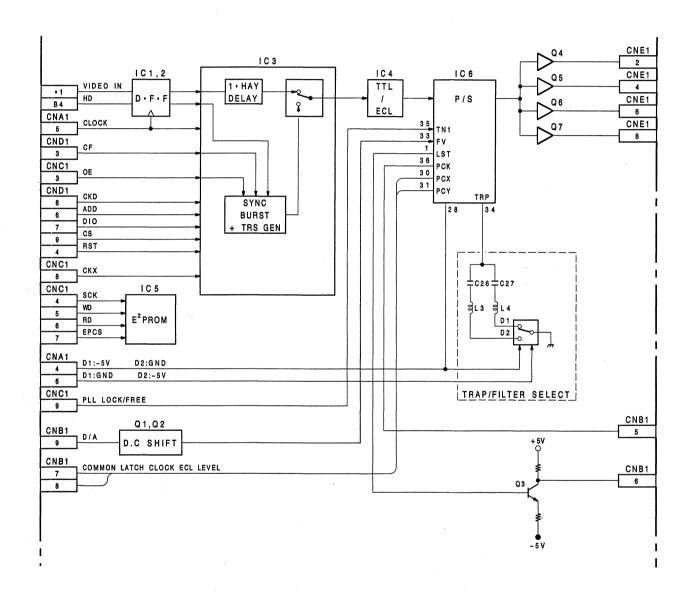


OUT-3; OUTPUT PROCESSOR BOARD



OUT-3 BOARD

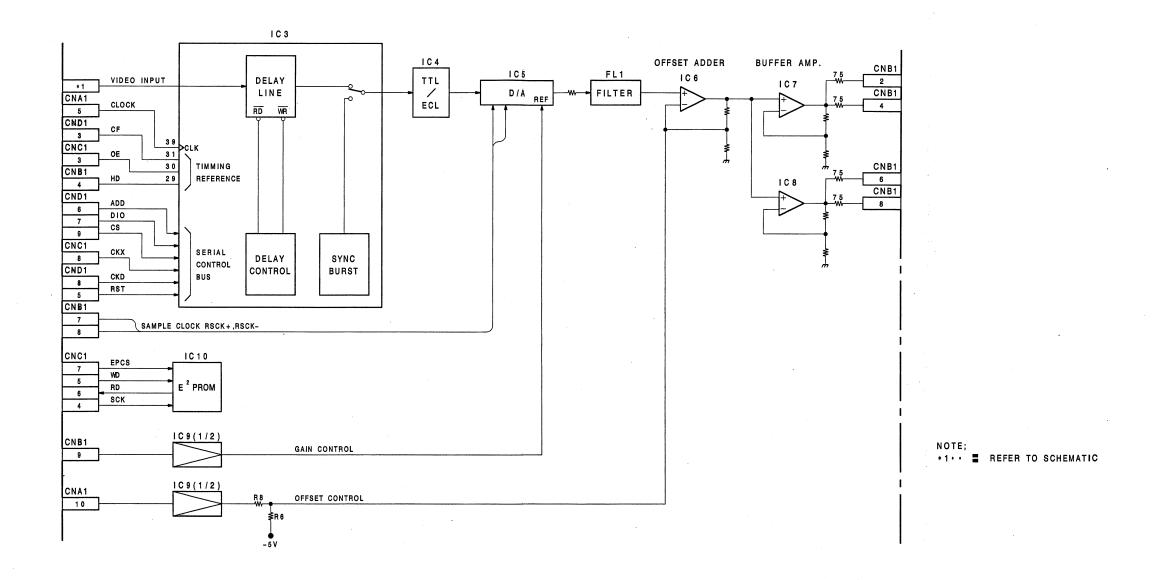
SD-31(BKDS-6063); DIGITAL EDIT PVW/REF OUTPUT BOARD



NOTE; *1 ···· REFER TO SCHEMATIC

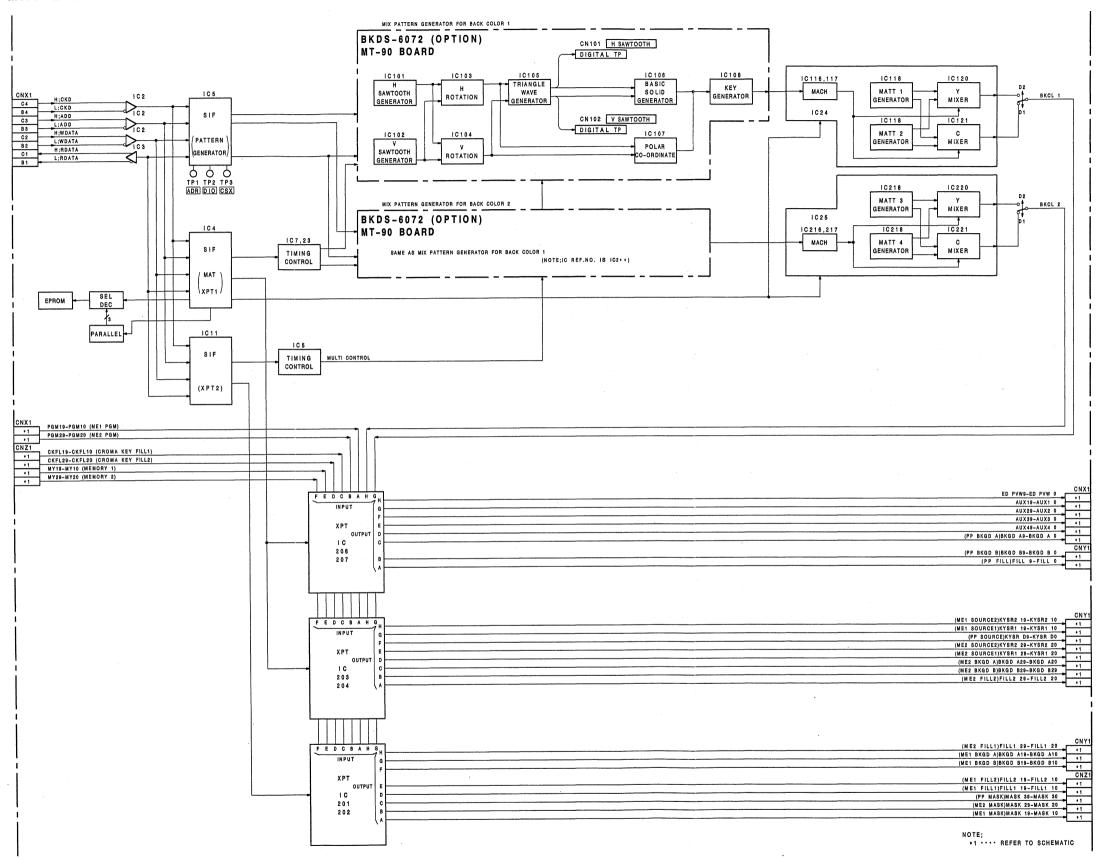
SD-31 BOARD

DA-73(BKDS-6064); ANALOG OUTPUT BOARD: DVS-6000 ONLY

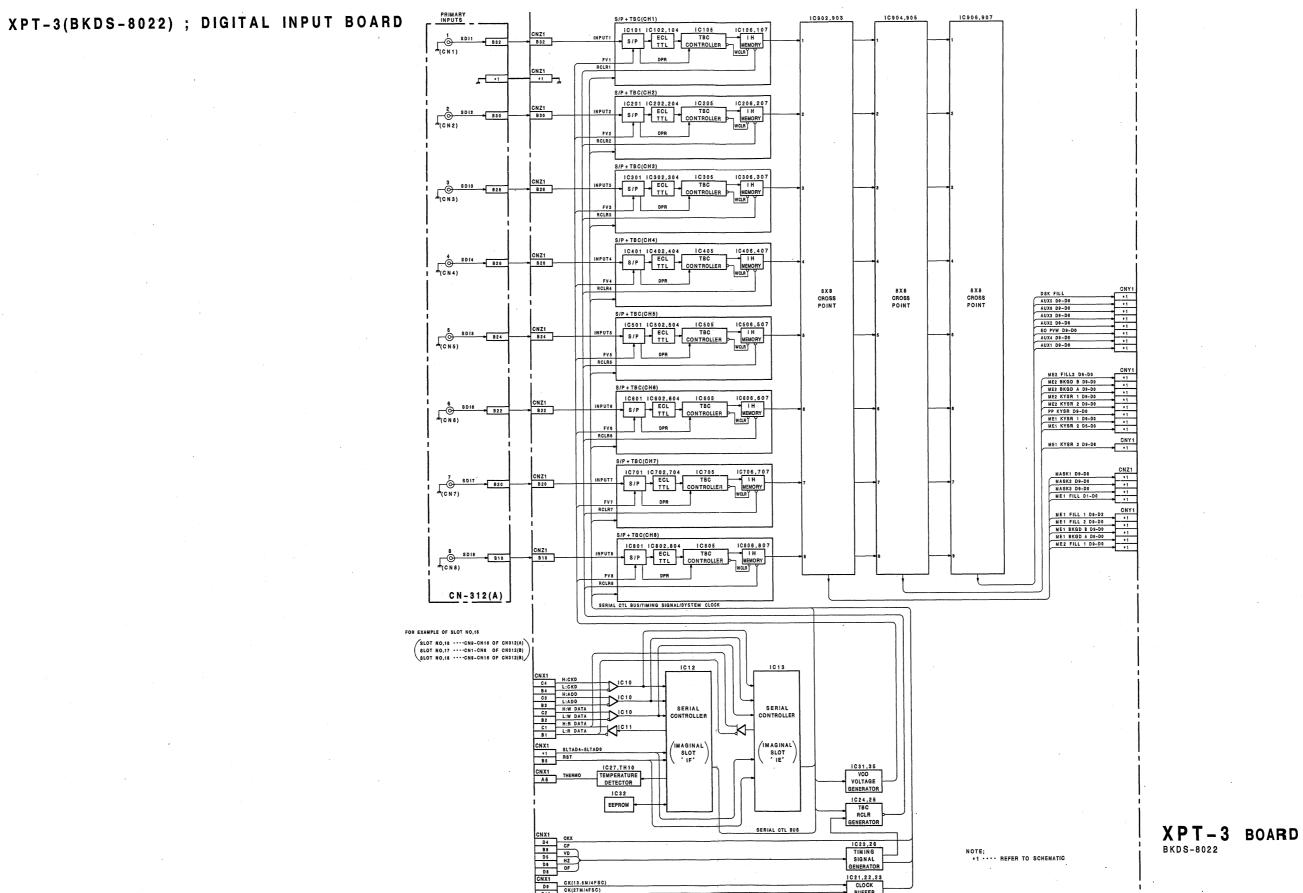


DA-73 BOARD

MAT-4; MATTE GENERATOR BOARD

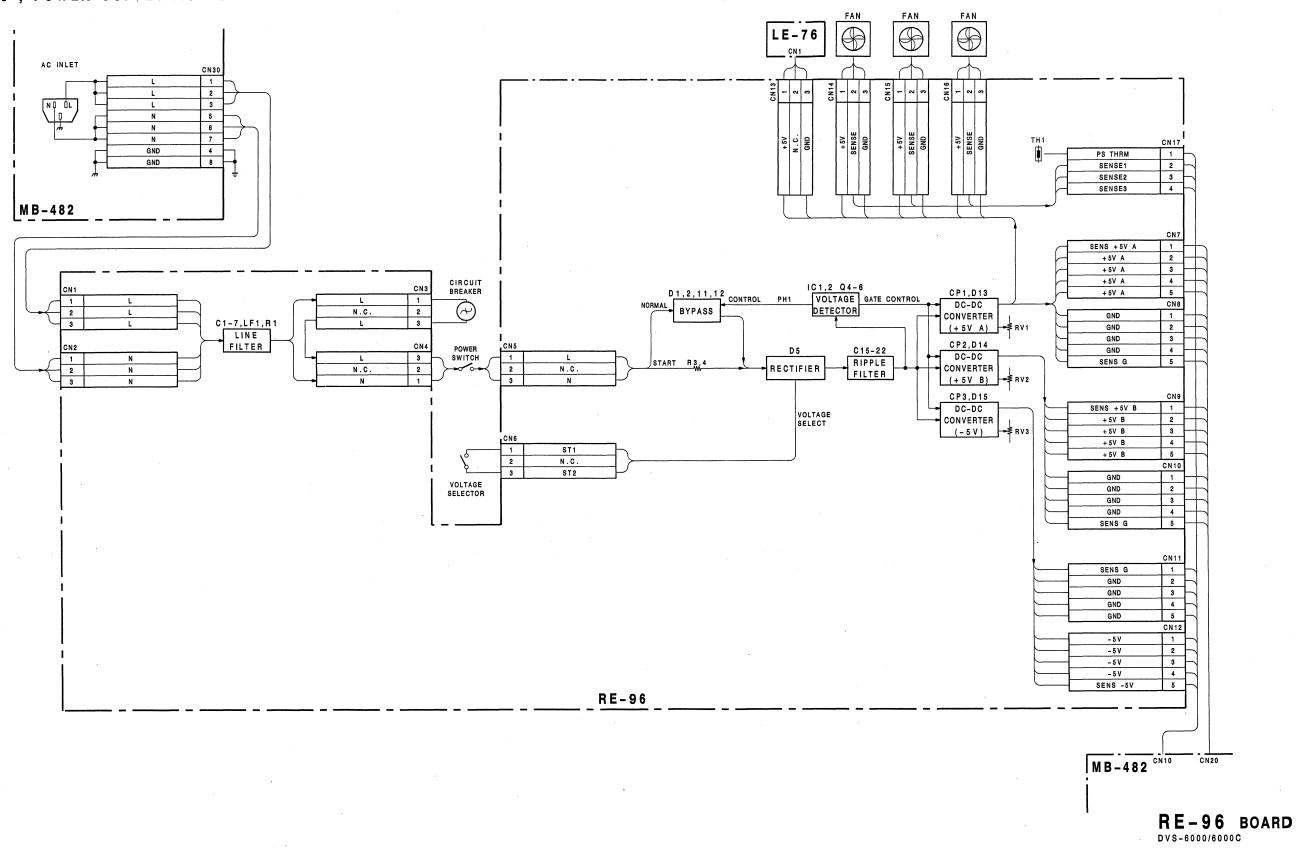


MAT-4 BOARD



XPT-3

RE-96; POWER SUPPLY AC-DC BOARD



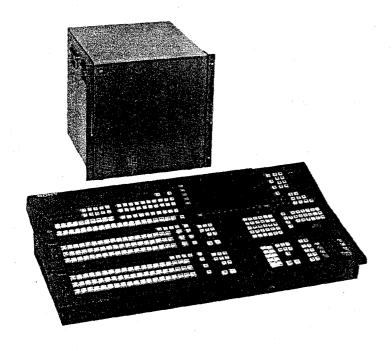
SONY

DIGITAL VIDEO SWITCHER

DVS-6000/6000C

SWITCHER CONTROL PANEL

BKDS-6010



BKDS-6050 BKDS-6060 BKDS-6061 BKDS-6062 BKDS-6063 BKDS-6064 BKDS-6070 BKDS-6071

BKDS-6072 BKDS-6090 BKDS-8022

INSTALLATION AND MAINTENANCE MANUAL Part 2
1st Edition
Serial No. 10001 and Higher

For customers in the U.S.A.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC rules.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

For the customers in the U.S.A.

Changing the voltage selector may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in radio interference regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A, pour bruits radioélectriques. Tel que spécifiér dans le reglement sur le brouillage radioélectrique.

Bescheinigung des Herstellers

Hiermit wird bescheinigt, daß die Digital-Video-Schalteinheit DVS-6000C in Übereinstimmung mit den Bestimmungen der BMPT-Amtsblatt Vfg 243/1991 und Vfg 46/1992 funkenstört ist. Der vorschriftsmäßige Betrieb mancher Geräte (z.B.Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung. Dem Bundesamt für Zulassungen in der Telekommunikation wurde das inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestmmungen eingeräumt.

Sony Deutschland GmbH Hugo Eckener Str 20 D-5000 Köin 30

Hinweis

Gemäß der Amtsblätter des BMPT Nm. 61/1991 und 6/ 1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengeste IIte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß.

SECTION 3 SCHEMATIC DIAGRAMS

The circuit informations are provided below

Circuit Board	Circuit Function
ADC-5	ANALOG INPUT (BKDS-8030):DVS-6000 ONLY
ADC-9	ANALOG INPUT (BKDS-8021):DVS-6000 ONLY
BD-22	KEY BORDER GENERATOR (BKDS-6071)
CN-311	OUTPUT CONNECTOR
CN-312(A,B)	PRIMARY INPUT CONNECTOR
CN-503	CHROMA KEY INPUT CONNECTOR: DVS-6000 ONLY
CN-843	CONTROL CONNECTOR
CPU-147	CPU
CRK-4	CLEAN CHROMAKEY (BKDS-8031):DVS-6000C ONLY
CRK-5	D-2 CHROMAKEY (BKDS-8030):DVS-6000 ONLY
DA-71	ANALOG EDIT PVW/REF OUTPUT (BKDS-6061):DVS-6000 ONLY
DA-72	ANALOG EDIT PVW/REF OUTPUT (BKDS-6062):DVS-6000C ONLY
DA-73	ANALOG OUTPUT (BKDS-6064):DVS-6000 ONLY
DSK-9	DSK
KPC-5	KEY PROCESSOR
LE-76	POWER LED
LE-118	LED
MAT-4	MATTE GENERATOR
MB-482	MOTHER
M I X - 8	MIXER
MT-90	BKGD COLOR MIX GENERATOR (BKDS-6072)
MY-50	D-2 FRAME MEMORY (BKDS-8040):DVS-6000 ONLY
MY-51	D-1 FRAME MEMORY (BKDS-8041):DVS-6000C ONLY
OUT-3	OUTPUT PROCESSOR
RE-96	POWER SUPPLY AC-DC
SD-30	DIGITAL EDIT PVW/REF OUTPUT (BKDS-6060)
SD-31	DIGITAL EDIT PVW/REF OUTPUT (BKDS-6063)
SG-210	D-2 SYNC GENERATOR:DVS-6000 ONLY
SG-211	D-1 SYNC GENERATOR:DVS-6000C ONLY
WKG-10	WIPE GENERATOR
WP-37	ENHANCED WIPE GENERATOR (BKDS-6070)
XPT-3	DIGITAL INPUT (BKDS-8022)

回路図において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams,the following marks are described nearby reference number. These are parts data at factory.

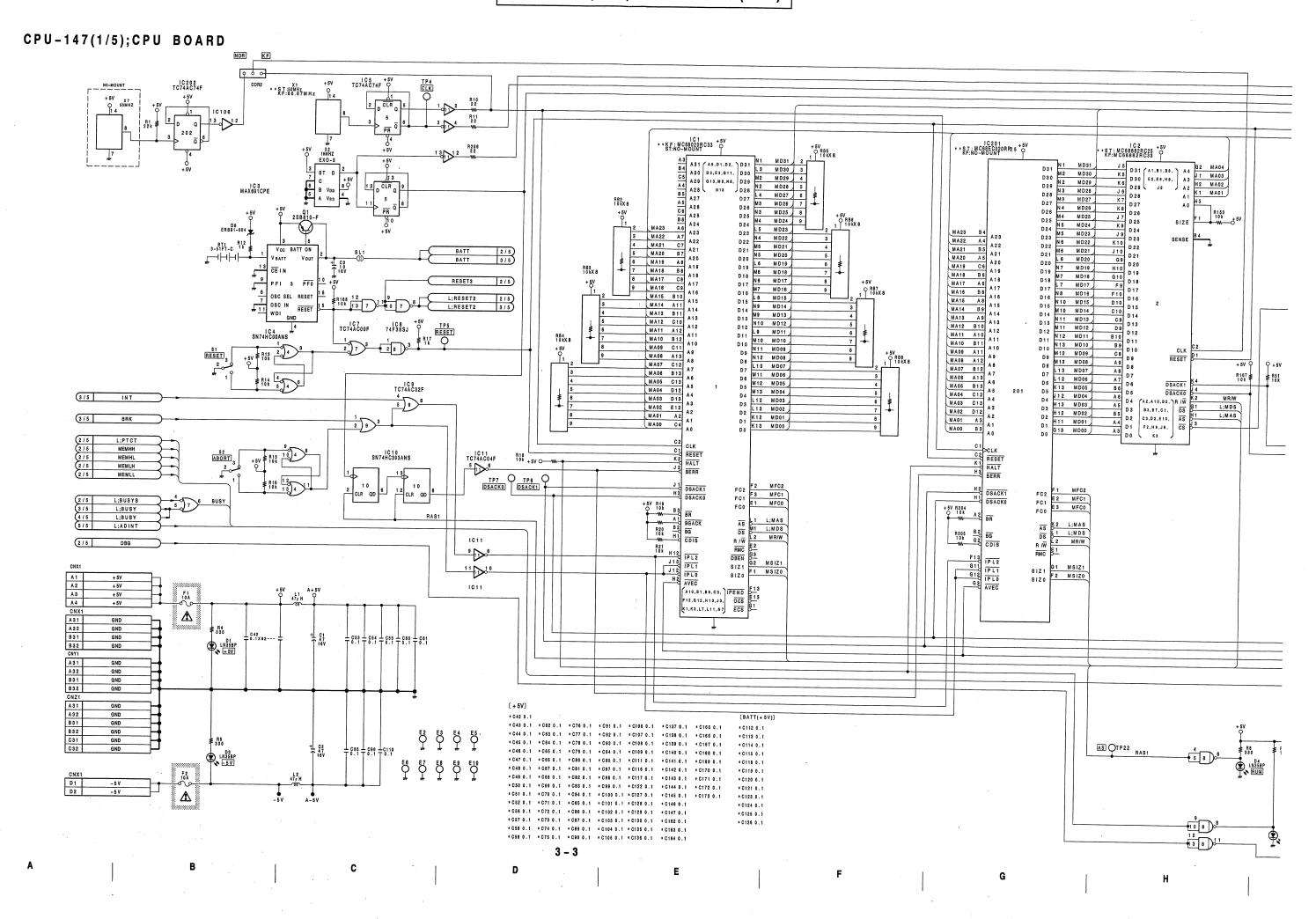
CAPACITOR (C)	RESISTOR (R) VARIABLE RESISTOR
AL AS ELECTROLYTIC TA TANTALUM CA CC CCS CCS CCM CS	RC
MPS PP MYLAR PT DIPPED MICA MS MICA	

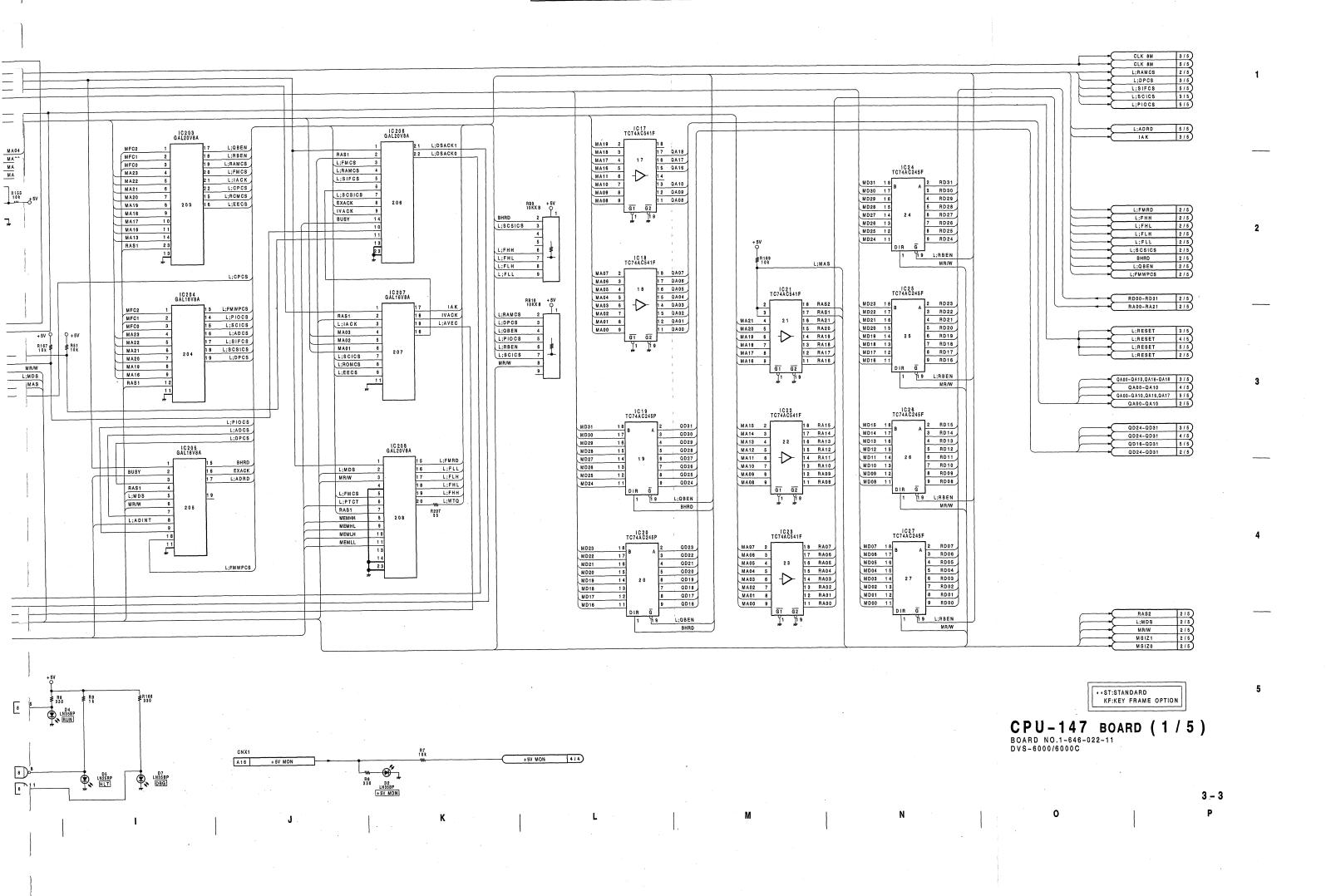
Board configuration of DVS-6000/6000C

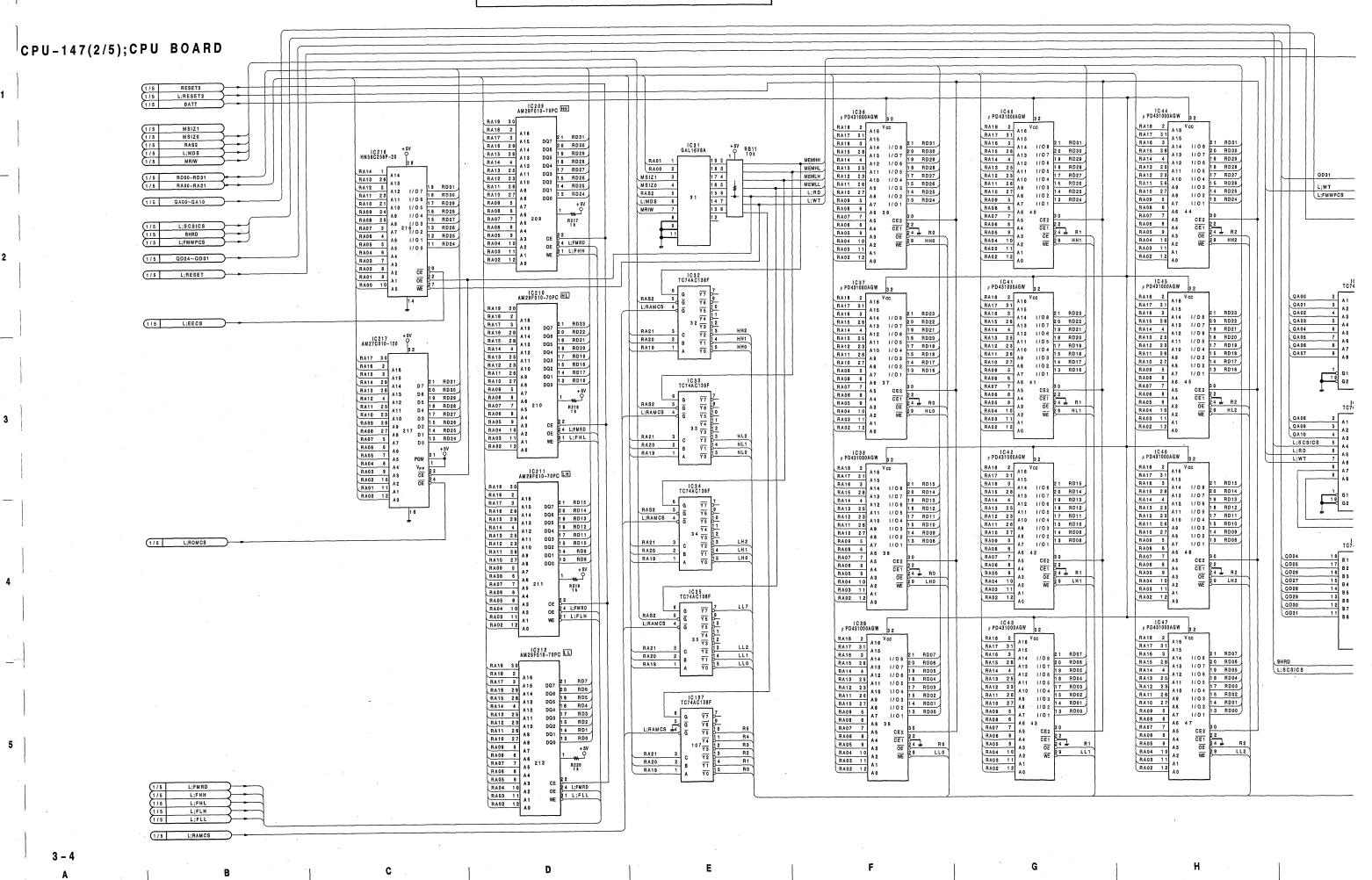
Slots	DVS-6000	DVS-6000C
1	CPU-147	CPU-147
2	SG-210 & LE-118 or SD-30(BKDS-6060)	SG-211 & LE-118 or SD-30(BKDS-6060)
	or DA-71(BKDS-6061)	or DA-72(BKDS-6062)
3	NOT USED	NOT USED
4	WKG-10 & WP-37(BKDS-6070)	WKG-10 & WP-37(BKDS-6070)
5,7	KPC-5 & BD-22(BKDS-6071)	KPC-5 & BD-22(BKDS-6071)
6,8	MIX-8	MIX-8A
9	DSK-9	DSK-9A
10	OUT-3 & SD-31(BKDS-6063) or DA-73(BKDS-6064)	OUT-3 & SD-31(BKDS-6030)
11	CRK-5* (BKDS-8030)	CRK-4* (BKDS-8031)
12	ADC-5* (BKDS-8030)	CRK-4* (BKDS-8031)
13	MAT-4 & MT-90(BKDS-6072)	MAT-4 & MT-90(BKDS-6072)
14	MY-50* (BKDS-8040)	MY-51 * (BKDS-8041)
15~18	ADC-9* (BKDS-8021) or XPT-3(BKDS-8022)	XPT-3* (BKDS-8022)

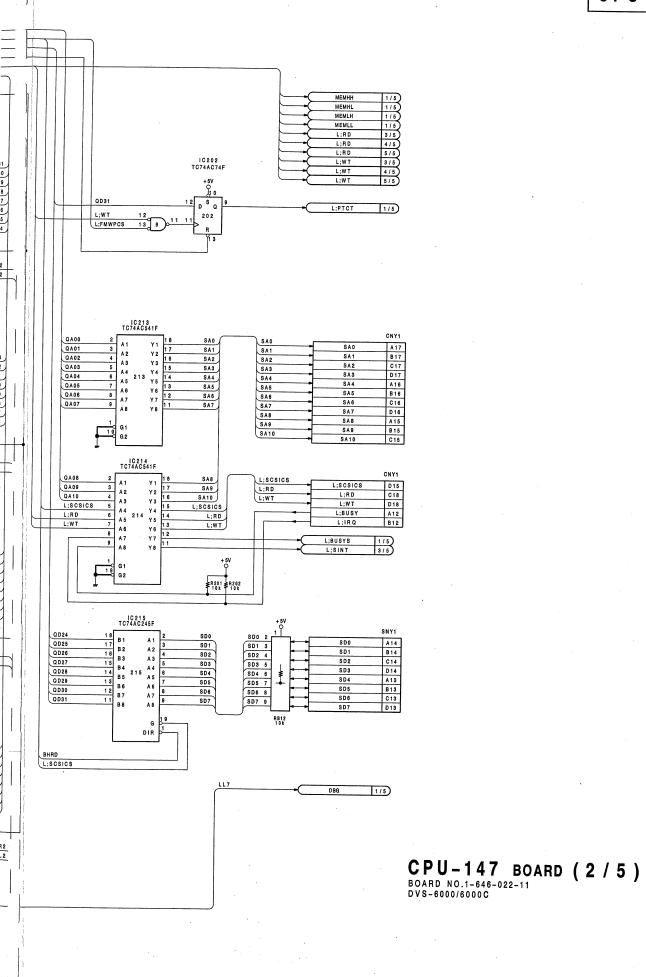
- *:DVS-8000/8000Cと共通で使用しているオプション基板です。 () 内は機種名を意味します。これらオプション基板の詳細については、 それぞれのオペレーション&メンテナンスマニュアルを御覧ください。
- *:Optional board commonly used for DVS-8000/8000C.

 The parenthesis signifies the model name. As for details of the optional board, refer to operation and maintenance manuals.

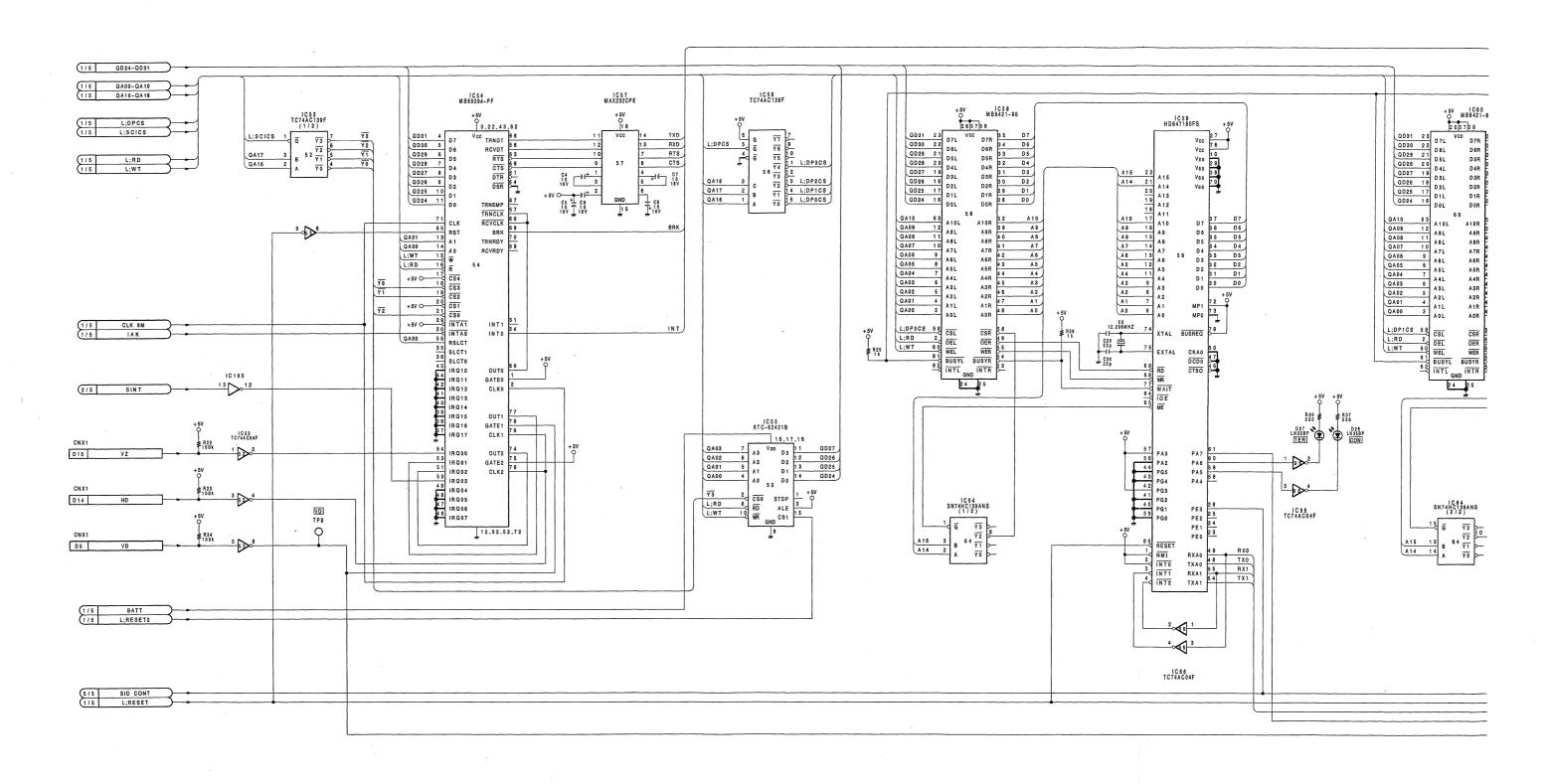








CPU-147(3/5); CPU BOARD



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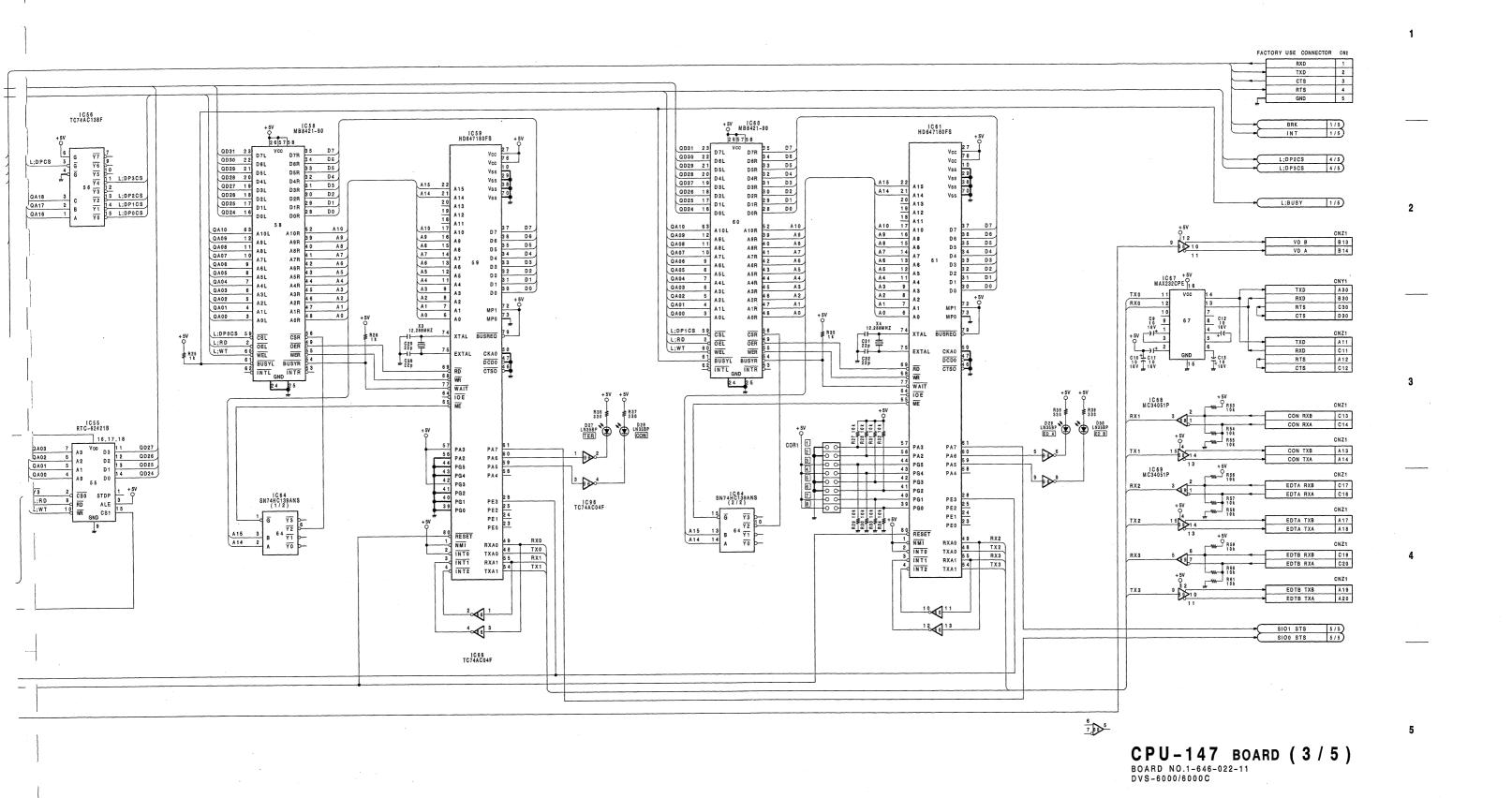
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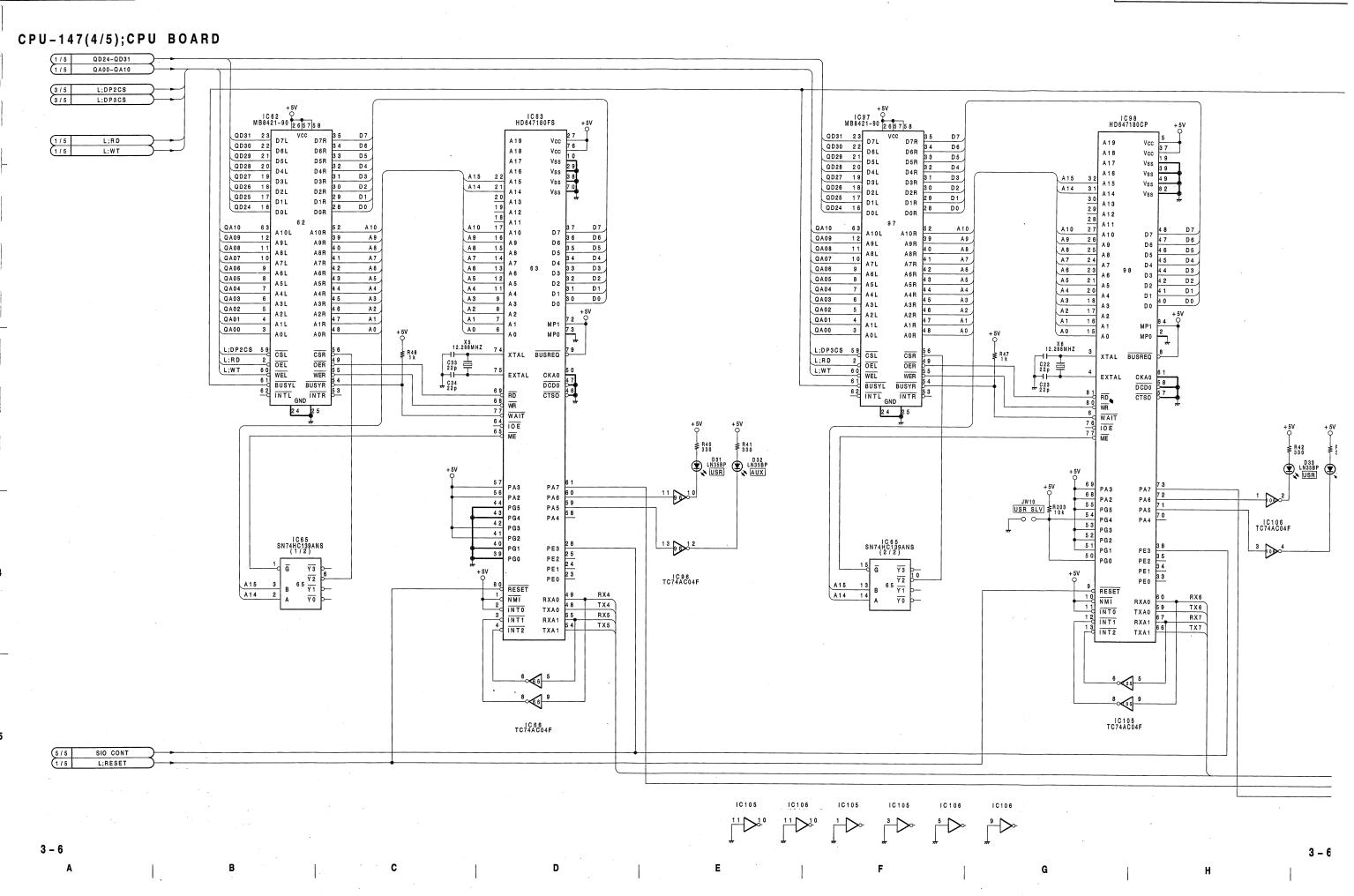
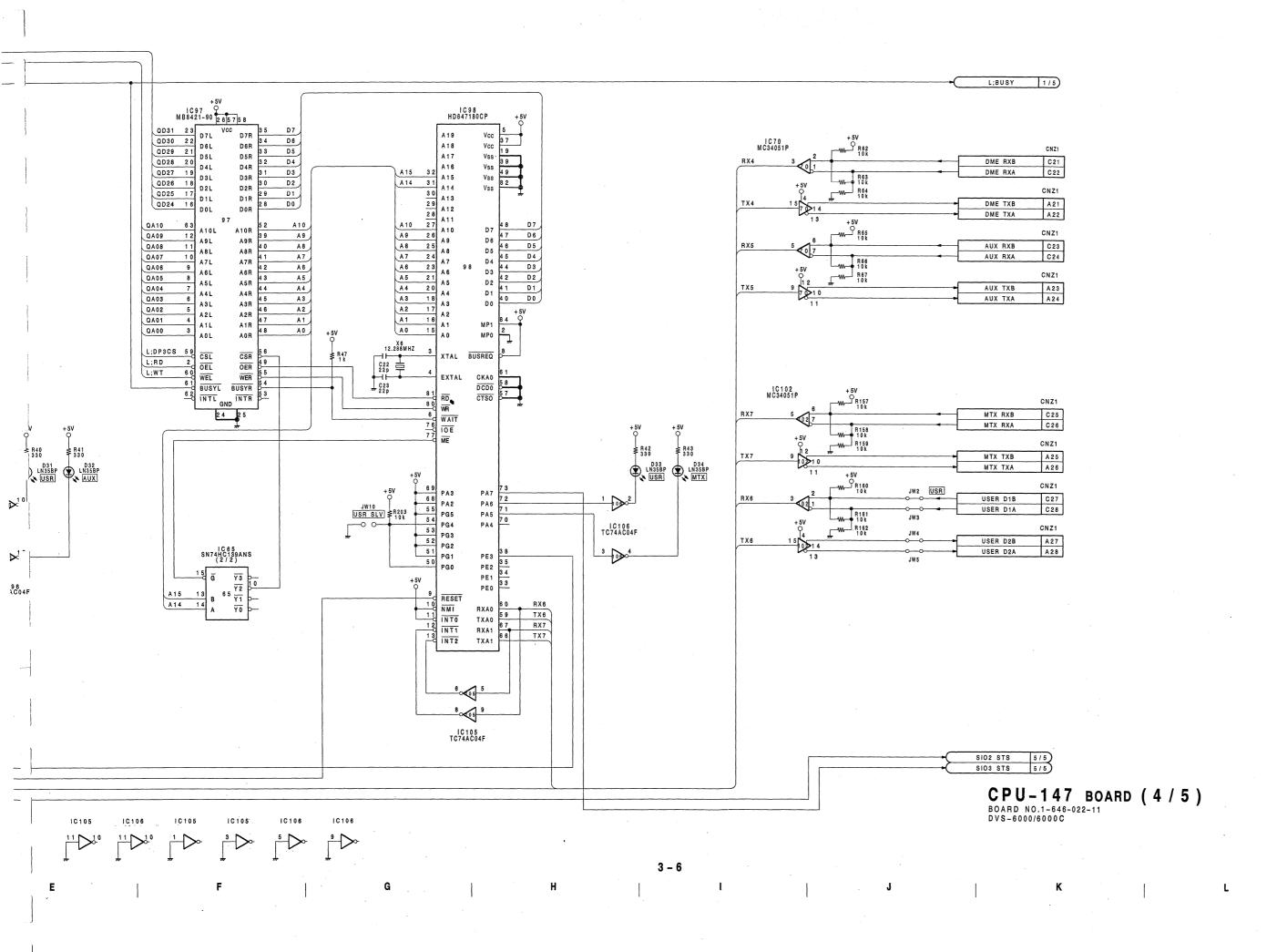
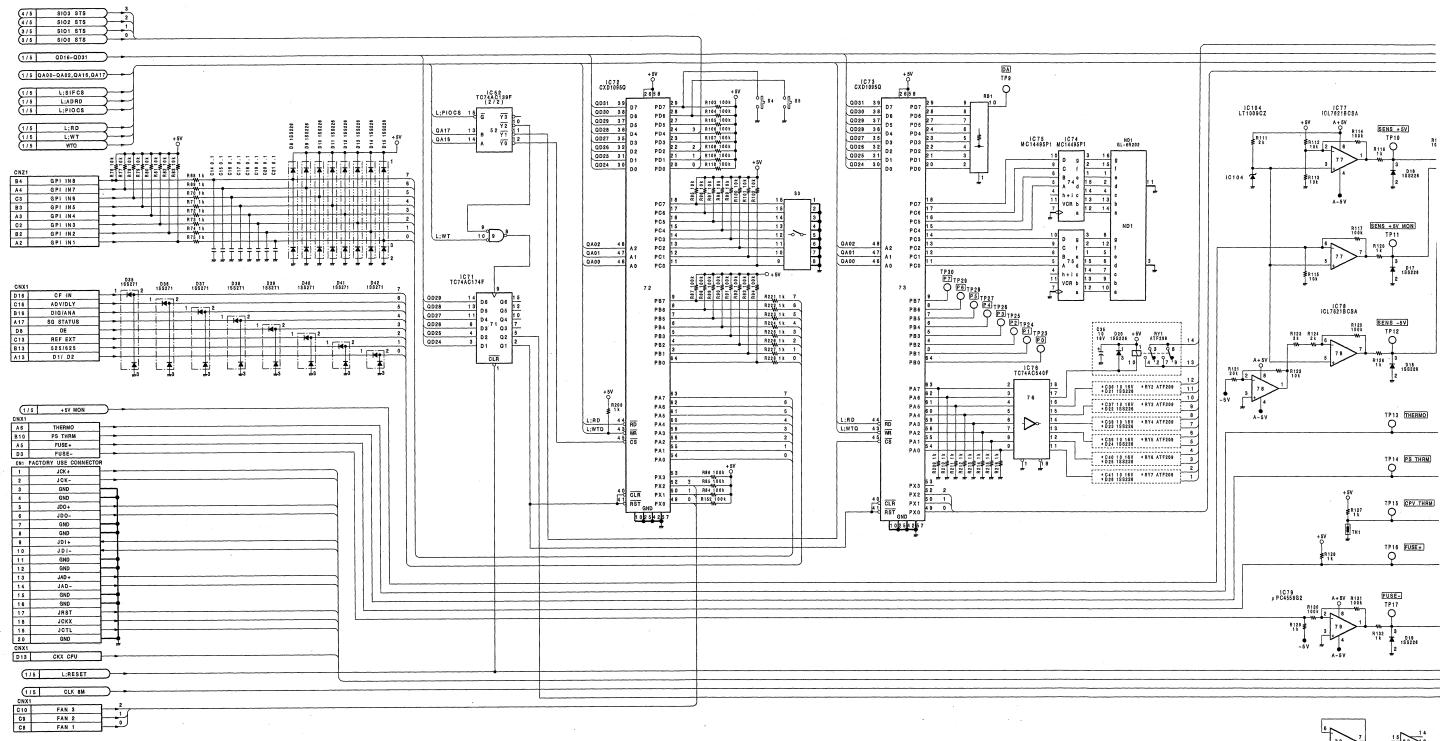
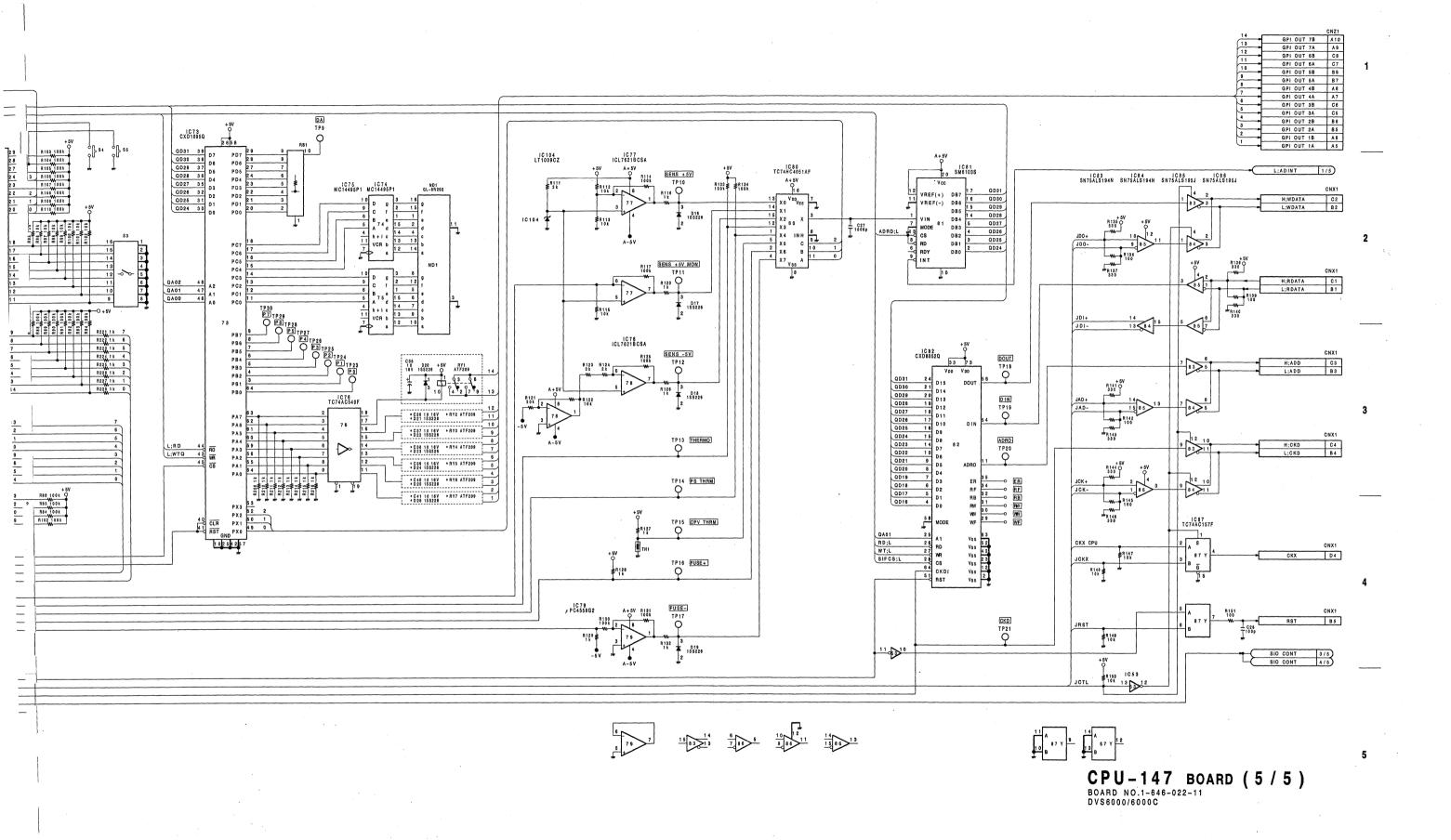


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CPU-147(5/5); CPU BOARD





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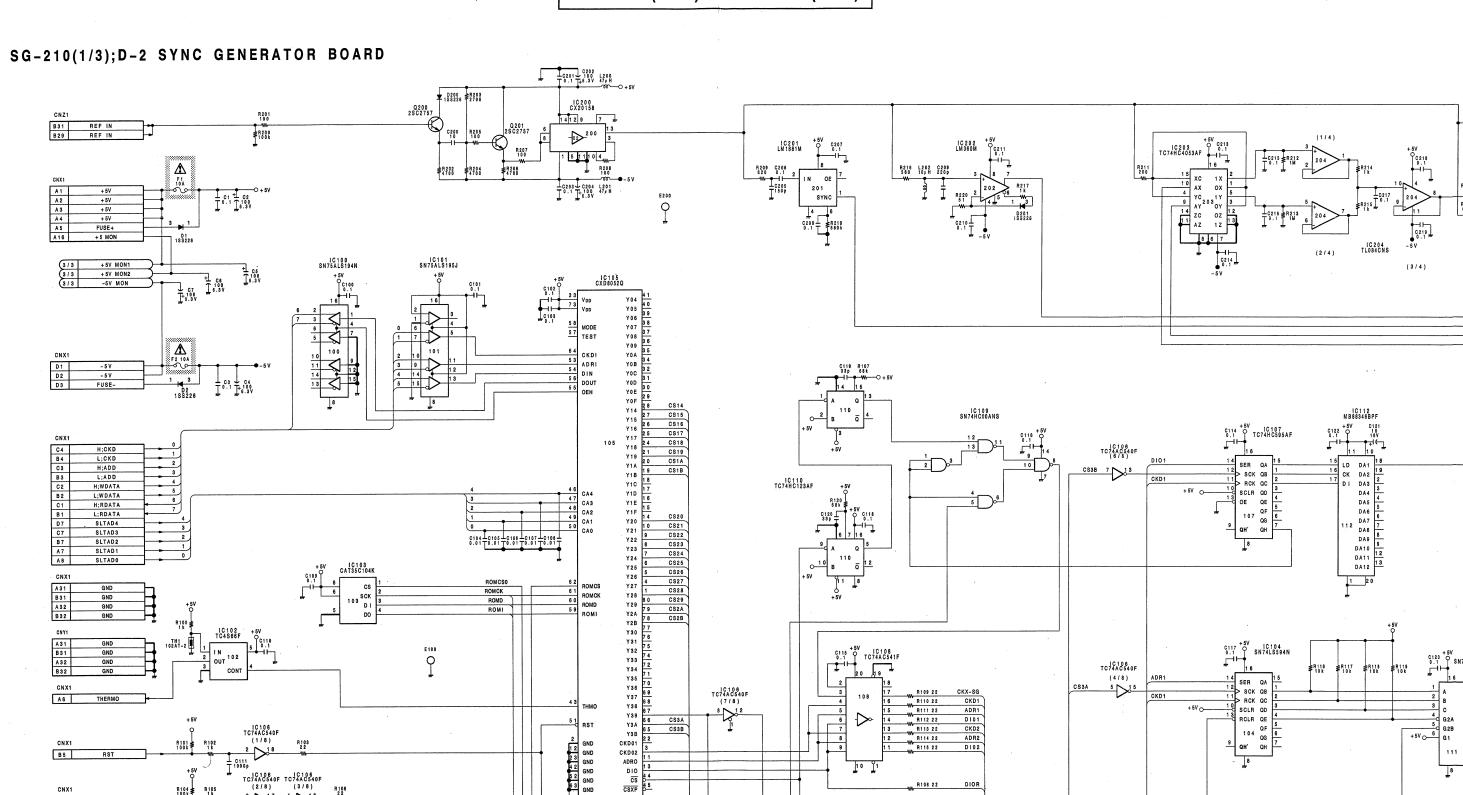
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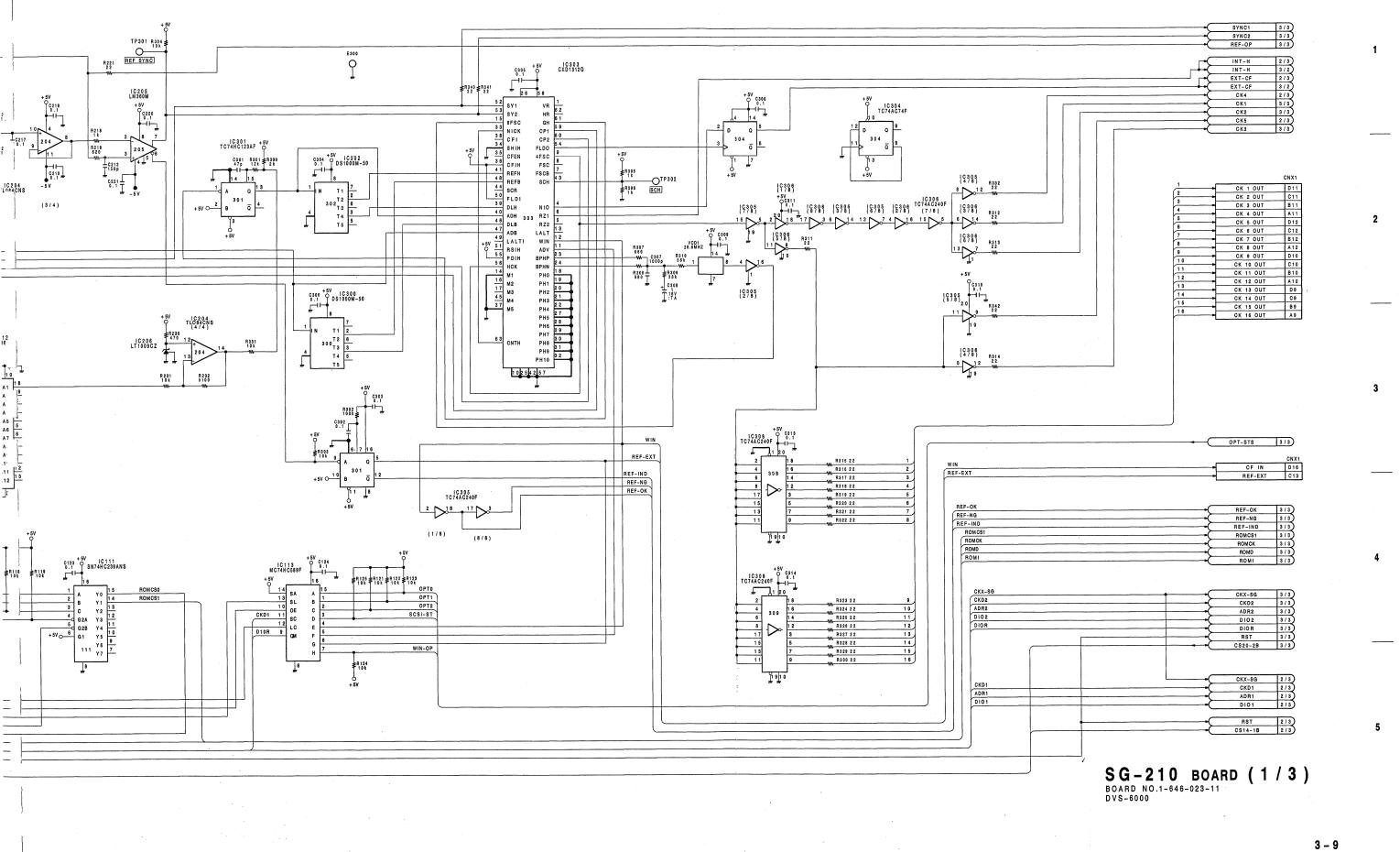
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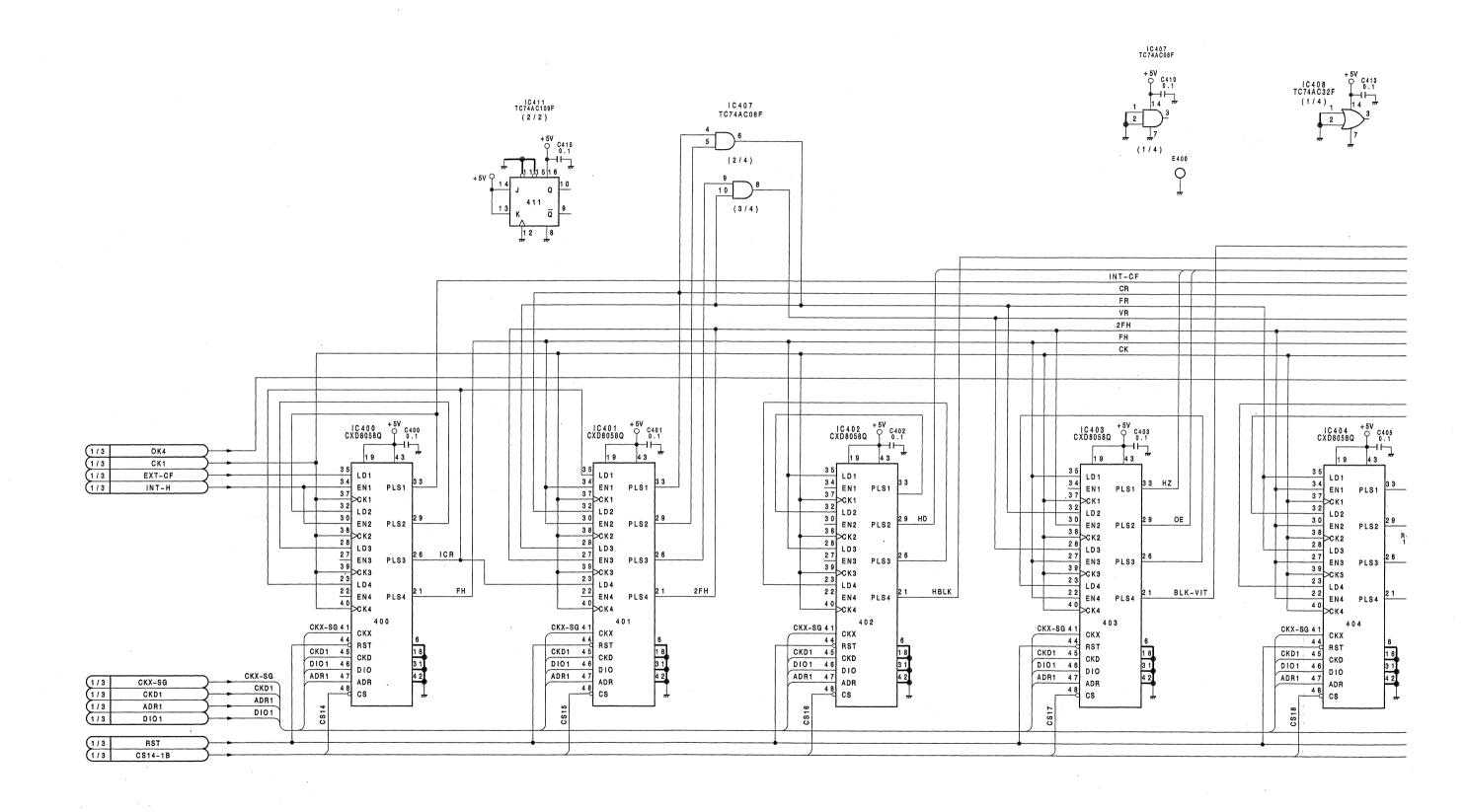
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E 100 TC74AC540F R116 ≱R117 10k ¥10k SER QA
SCK QB
RCK QC
SCLR QD A 6 THERMO ADR1 D101 CKD2 ADR2 TC74AC540F TC74AC540F (2/8) (3/8) TC74AC540F 19 TC74AC540F +5V -0.113 20 20 110 (8/8)



SG-210(2/3);D-2 SYNC GENERATOR BOARD



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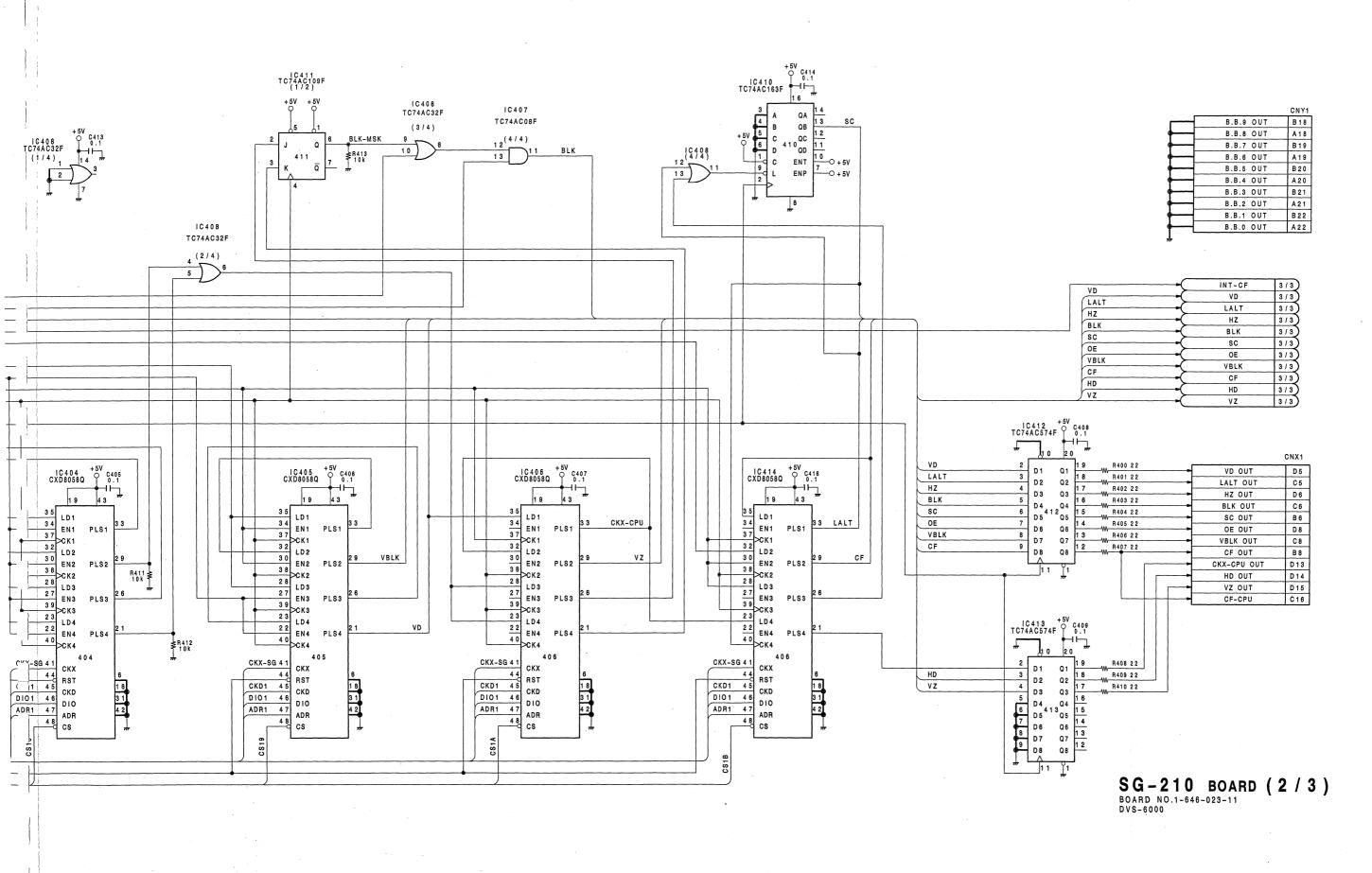
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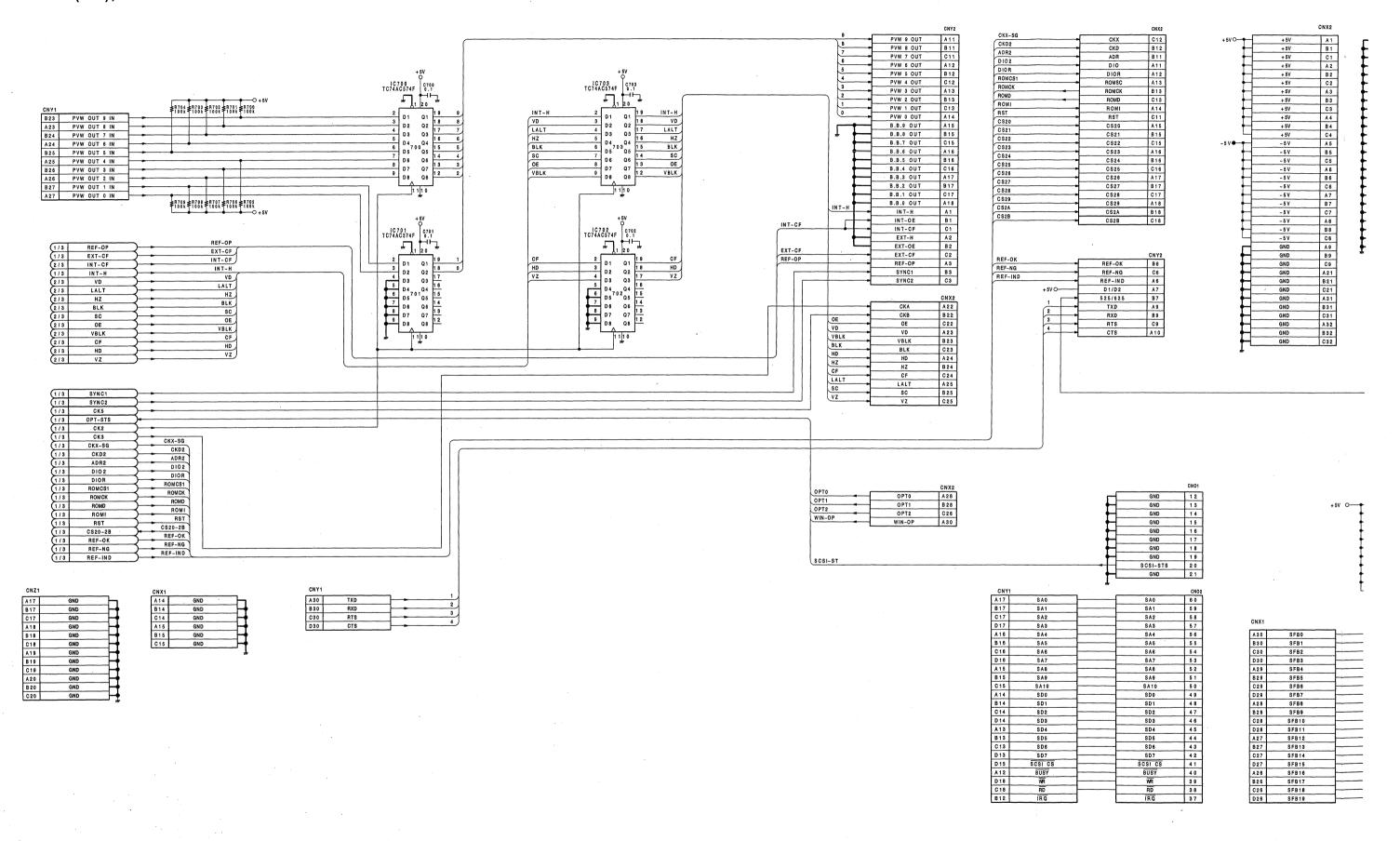
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SG-210(3/3):D-2 SYNC GENERATOR BOARD



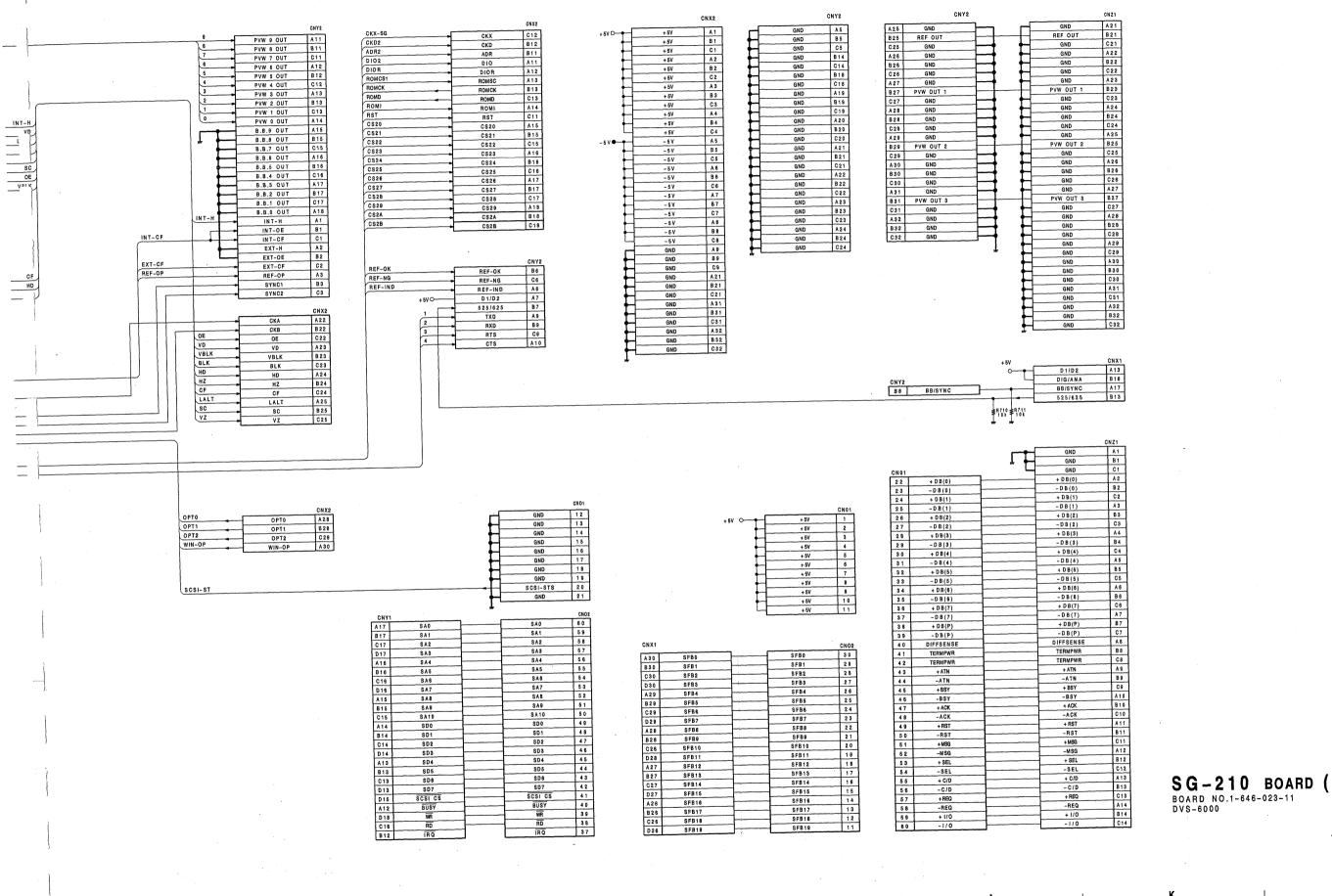
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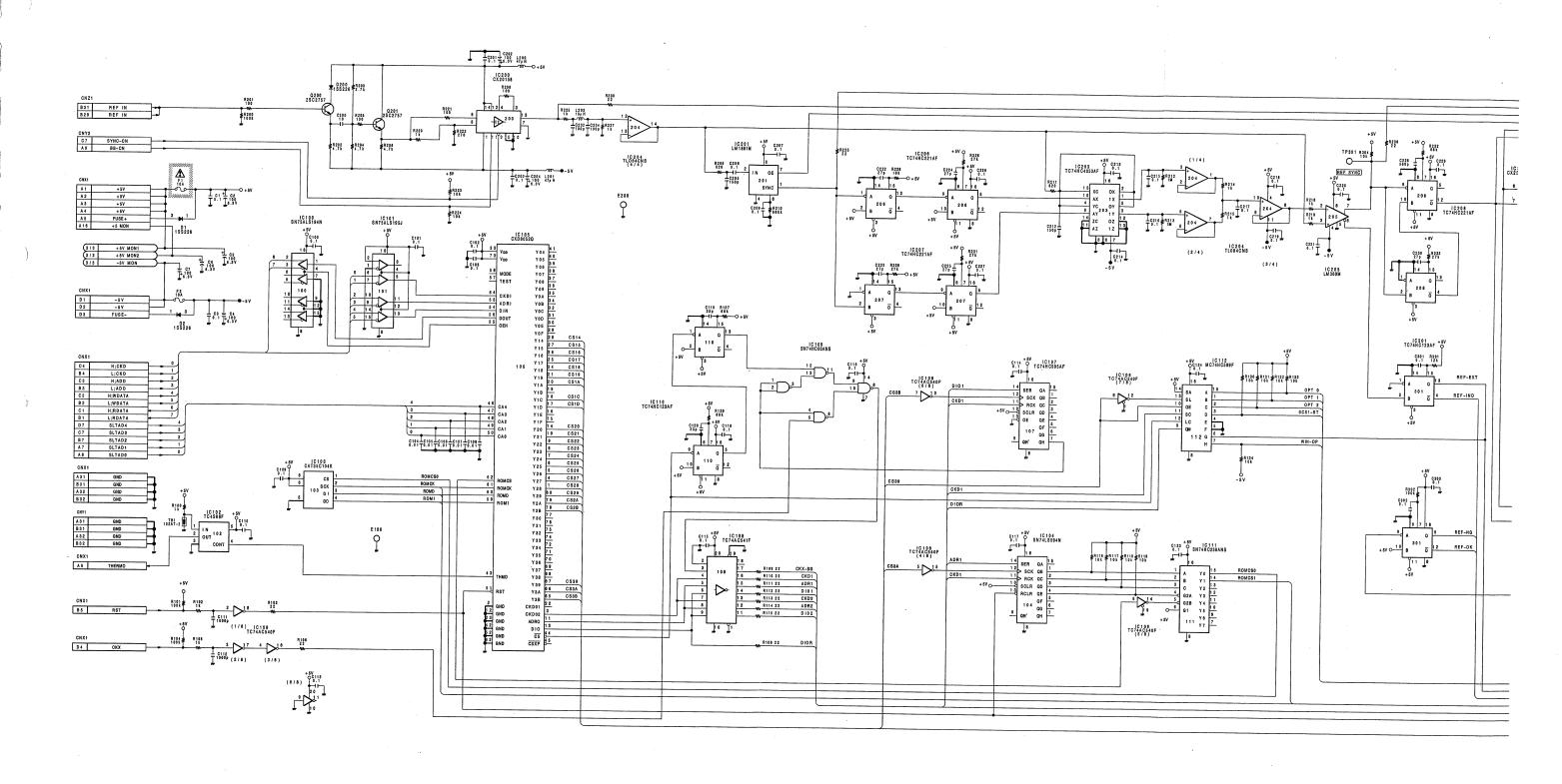
SG-210(3/3)

SG-210 BOARD (3/3)

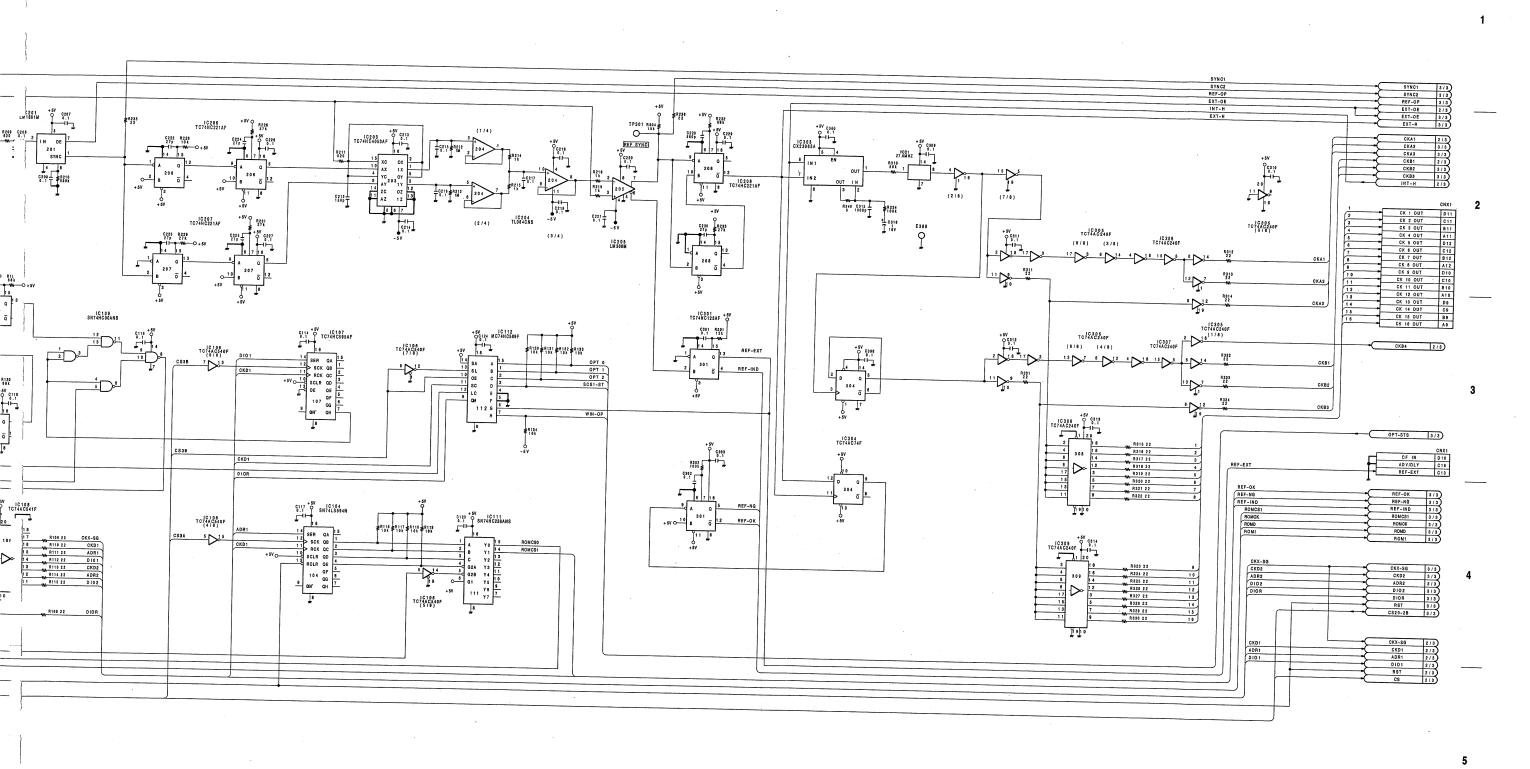
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SG-211(1/3);D-1 SYNC GENERATOR BOARD



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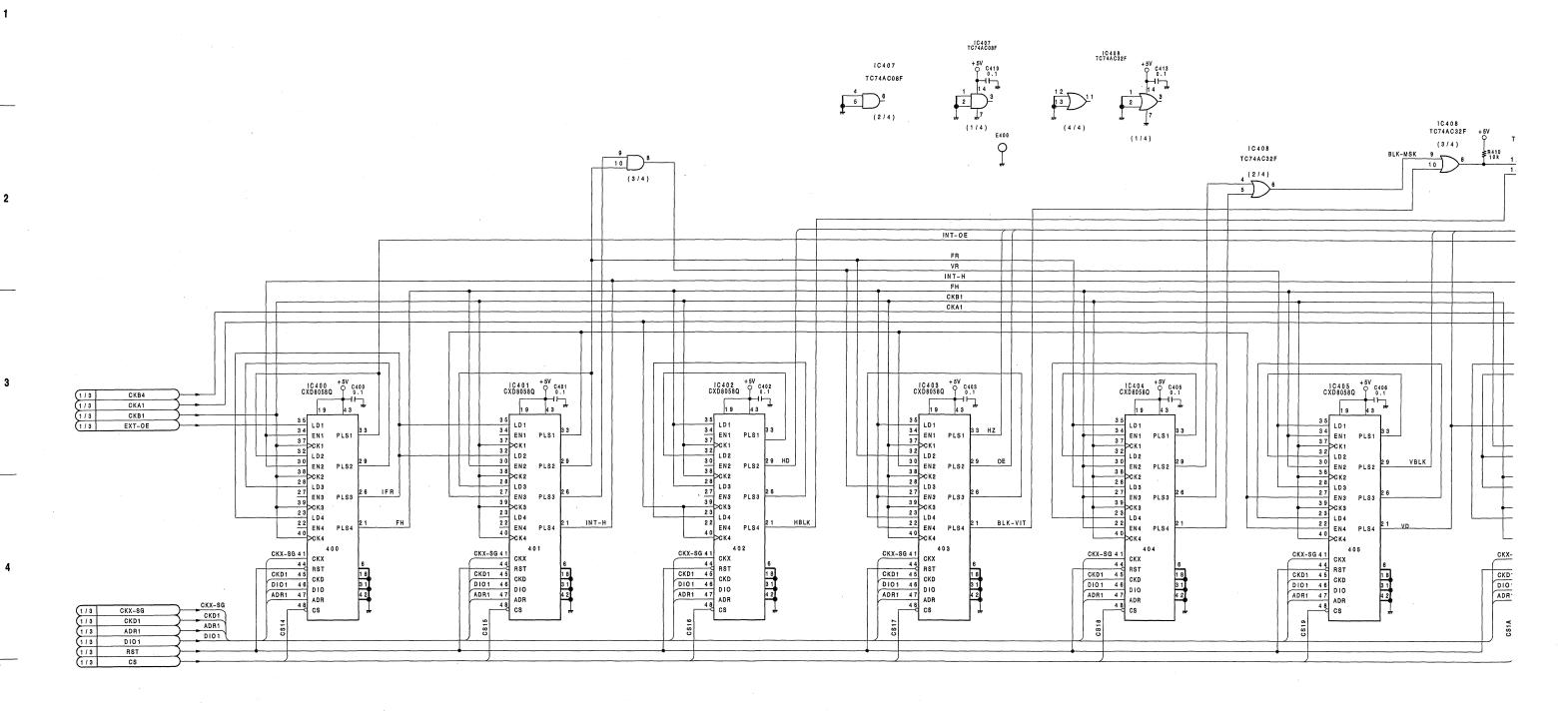


1 3) SG-211(1/3)

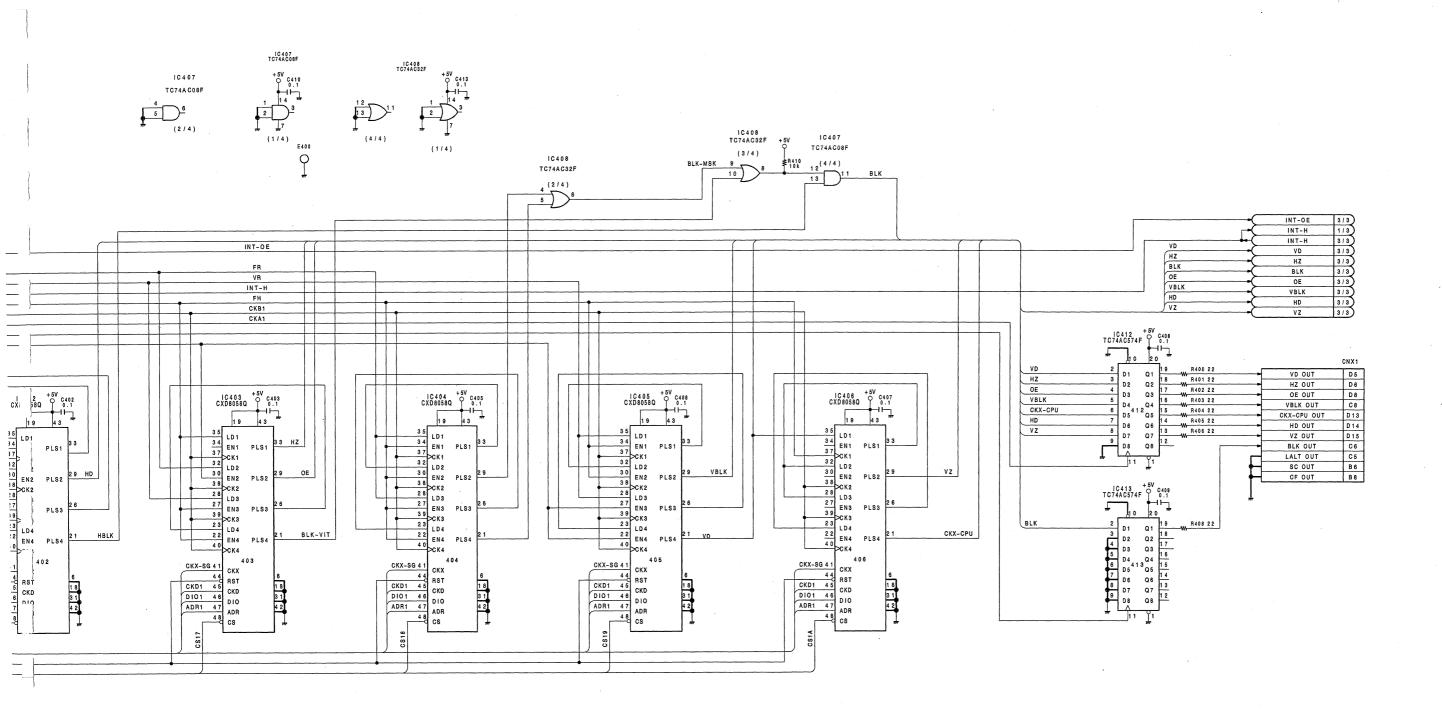
SG-211 BOARD (1/3)
BOARD NO.1-646-024-11
DVS-6000C

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SG-211(2/3);D-1 SYNC GENERATOR BOARD



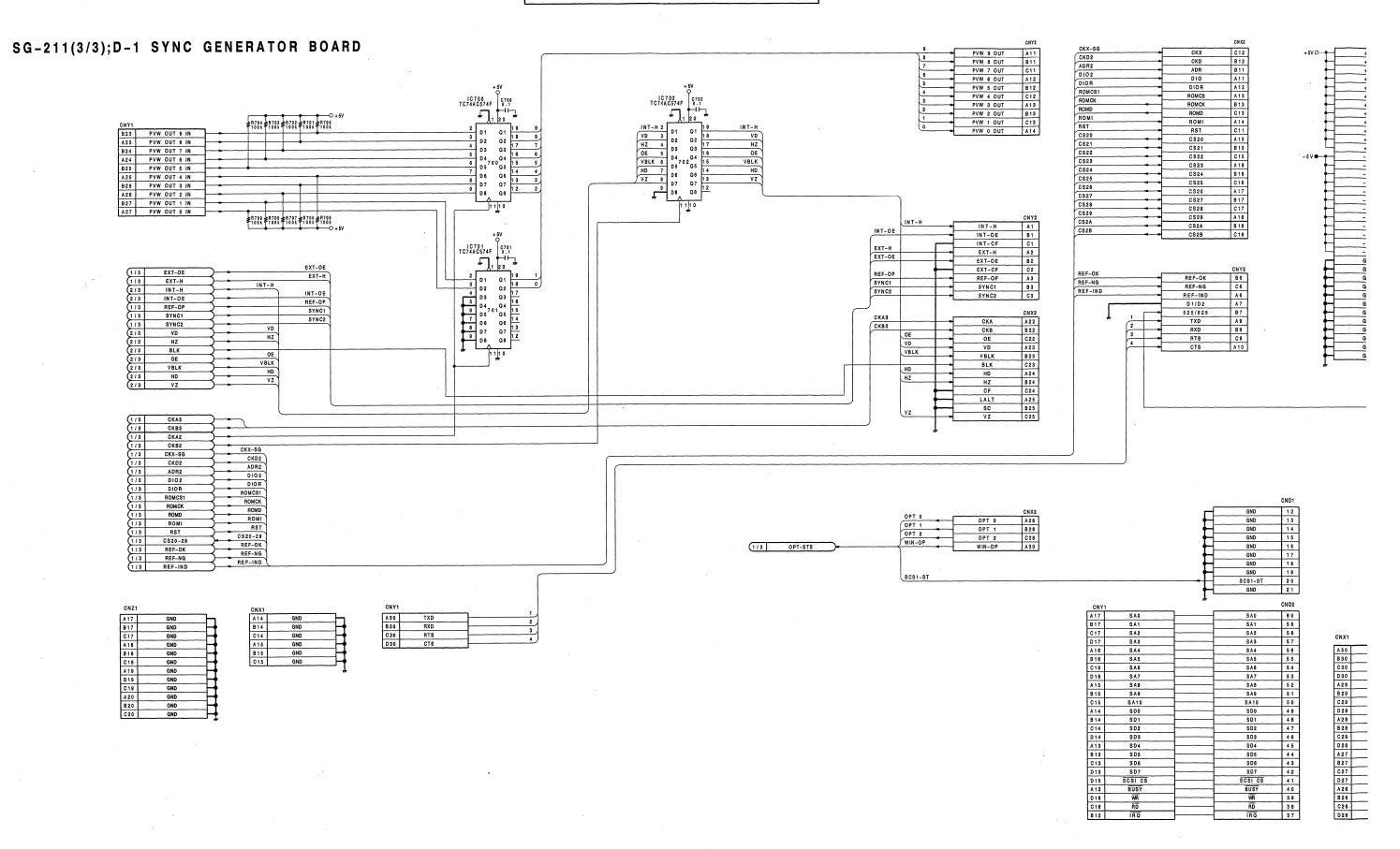
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SG-211 BOARD (2/3)
BOARD NO.1-646-024-11
DVS-6000C

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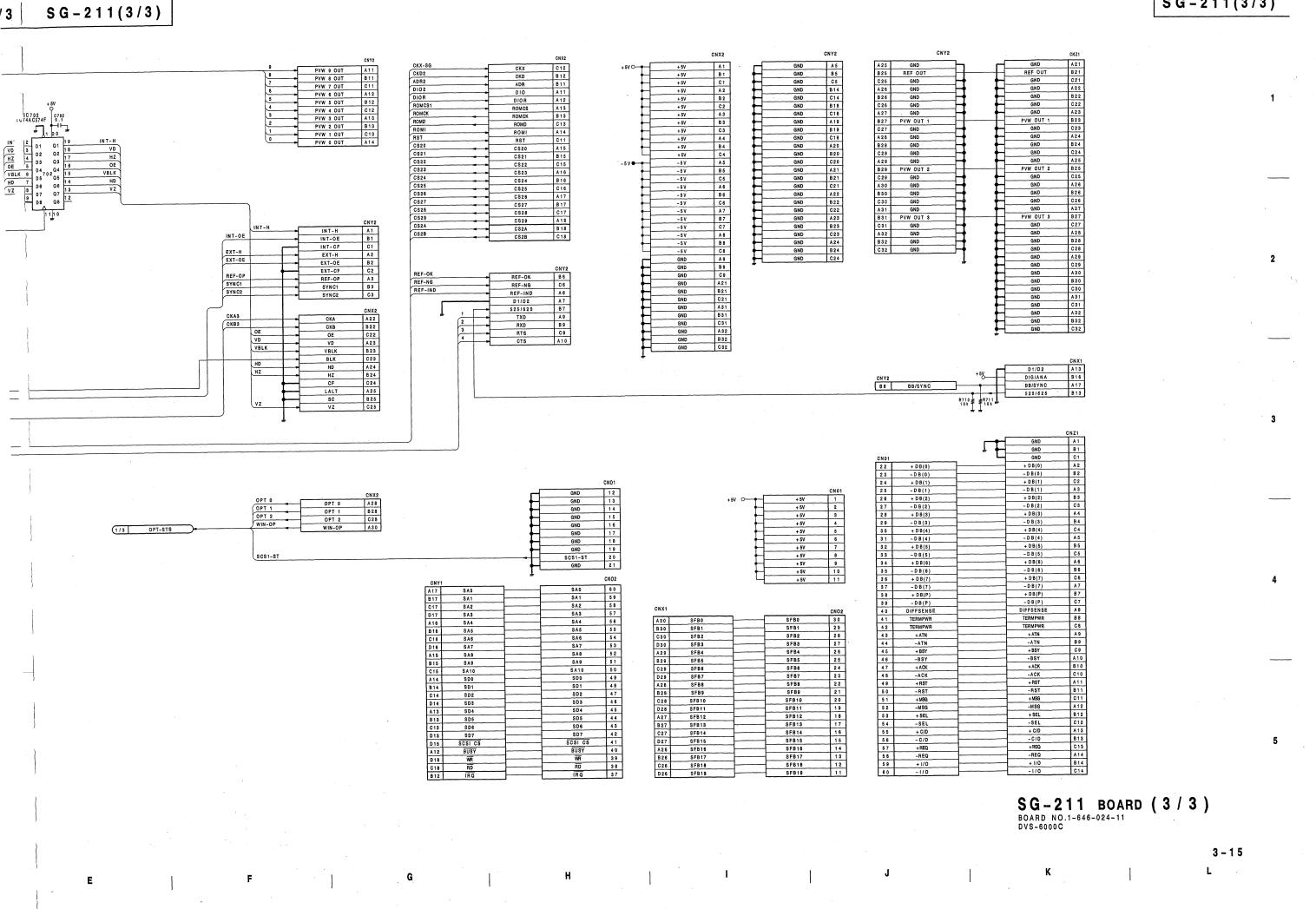
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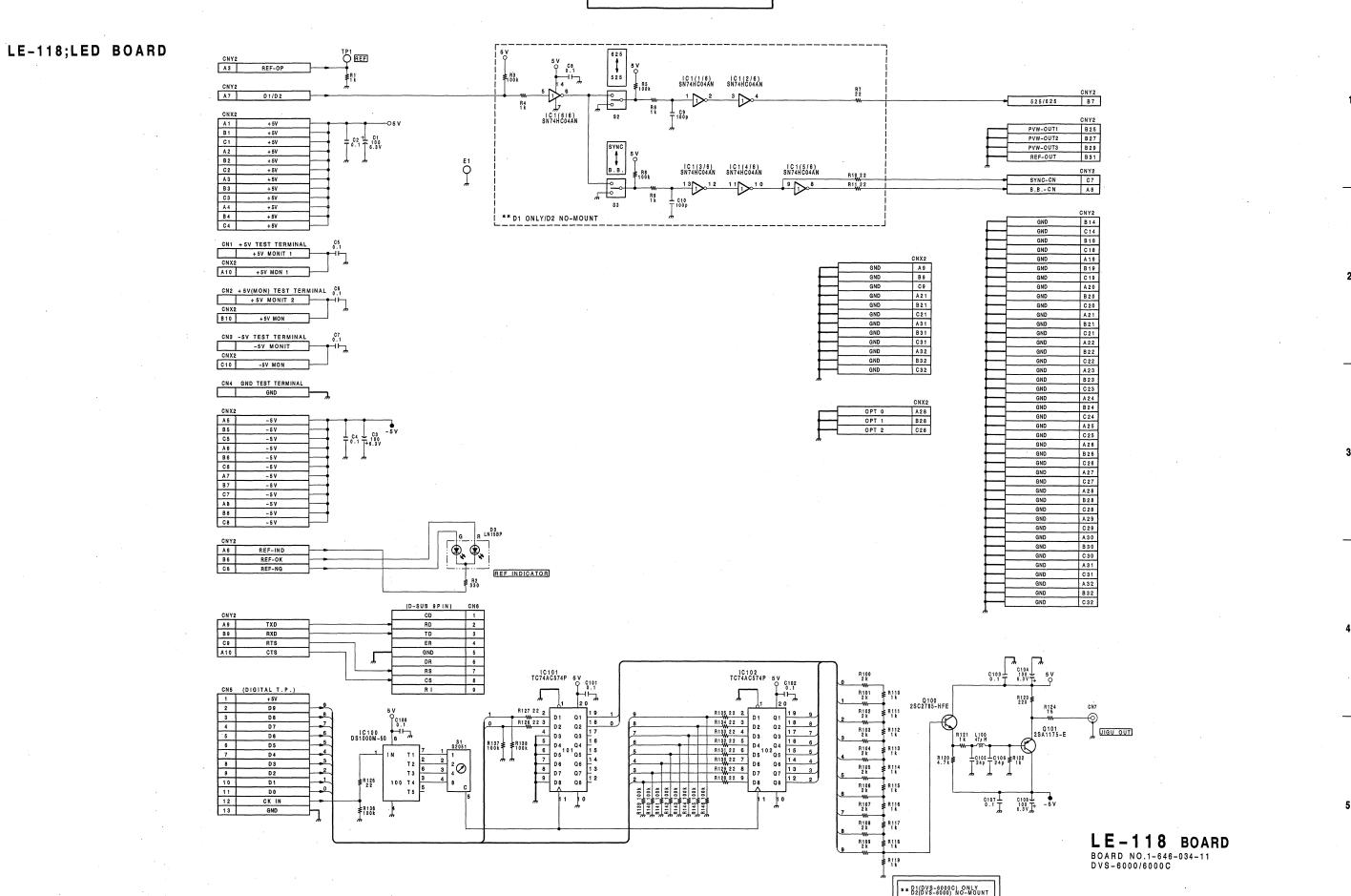
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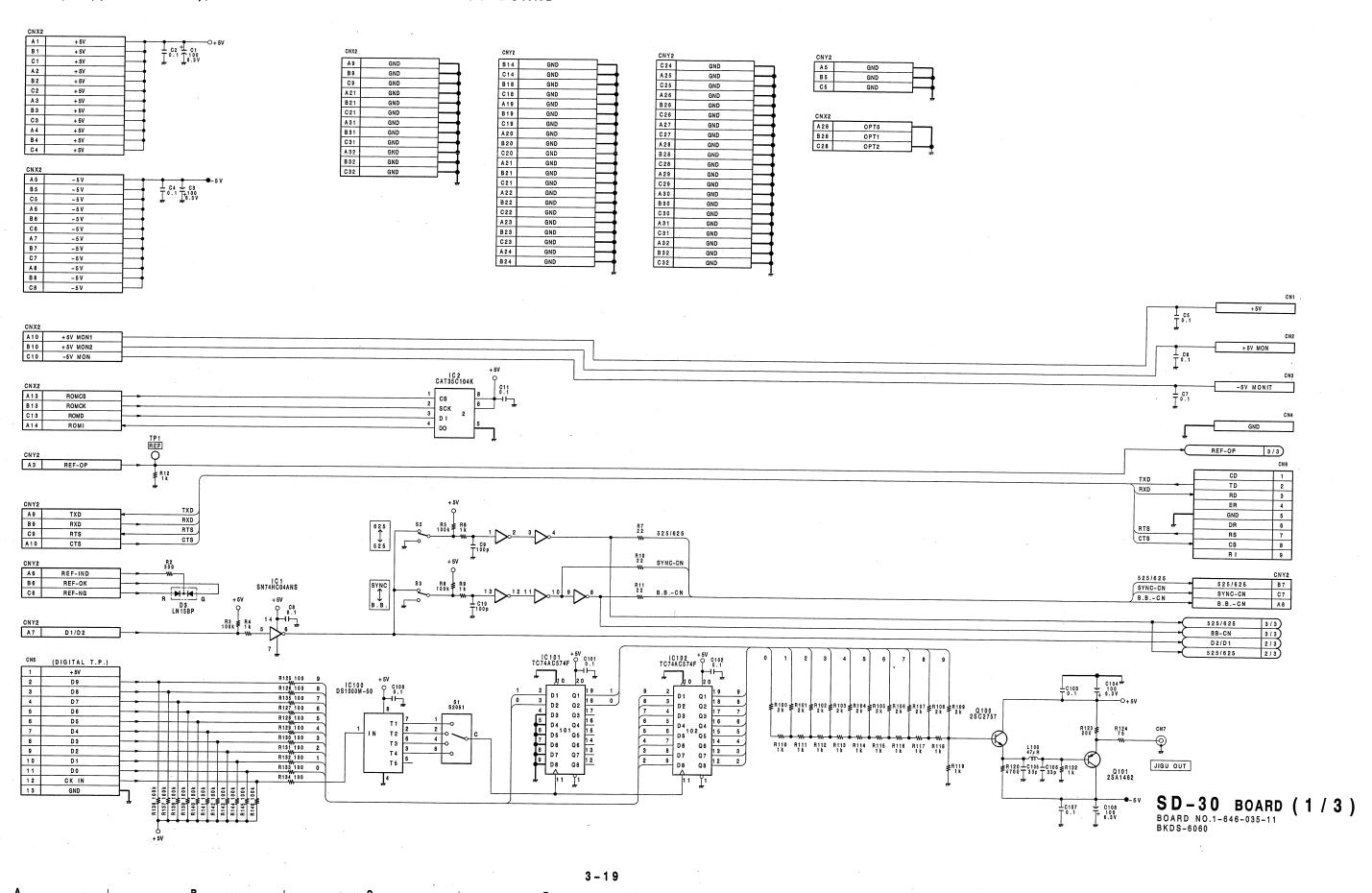


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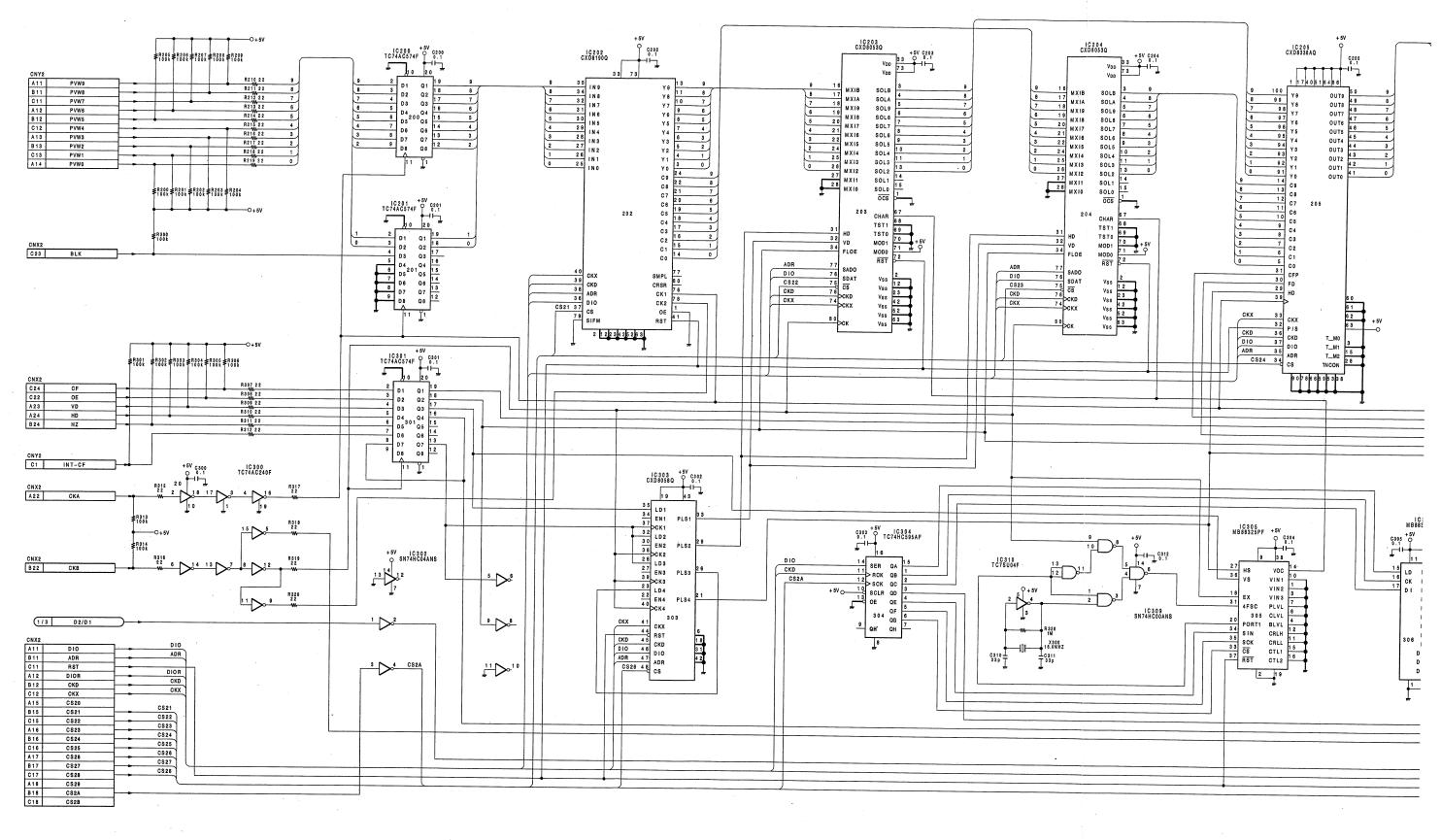
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SD-30(1/3)(BKDS-6060);DIGITAL EDIT PVW/REF OUTPUT BOARD



D (1/3)

SD-30(2/3)(BKDS-6060);DIGITAL EDIT PVW/REF OUTPUT BOARD



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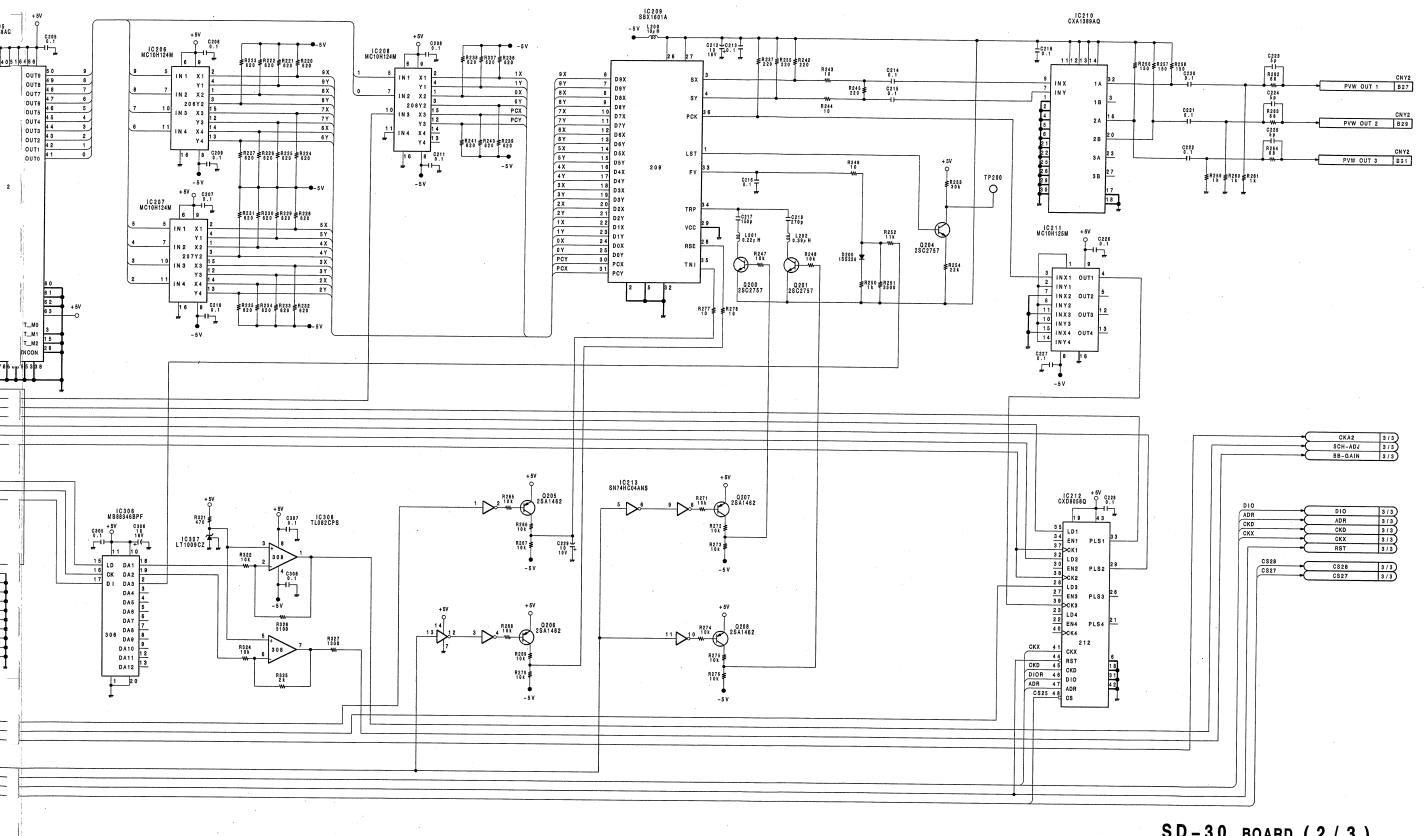
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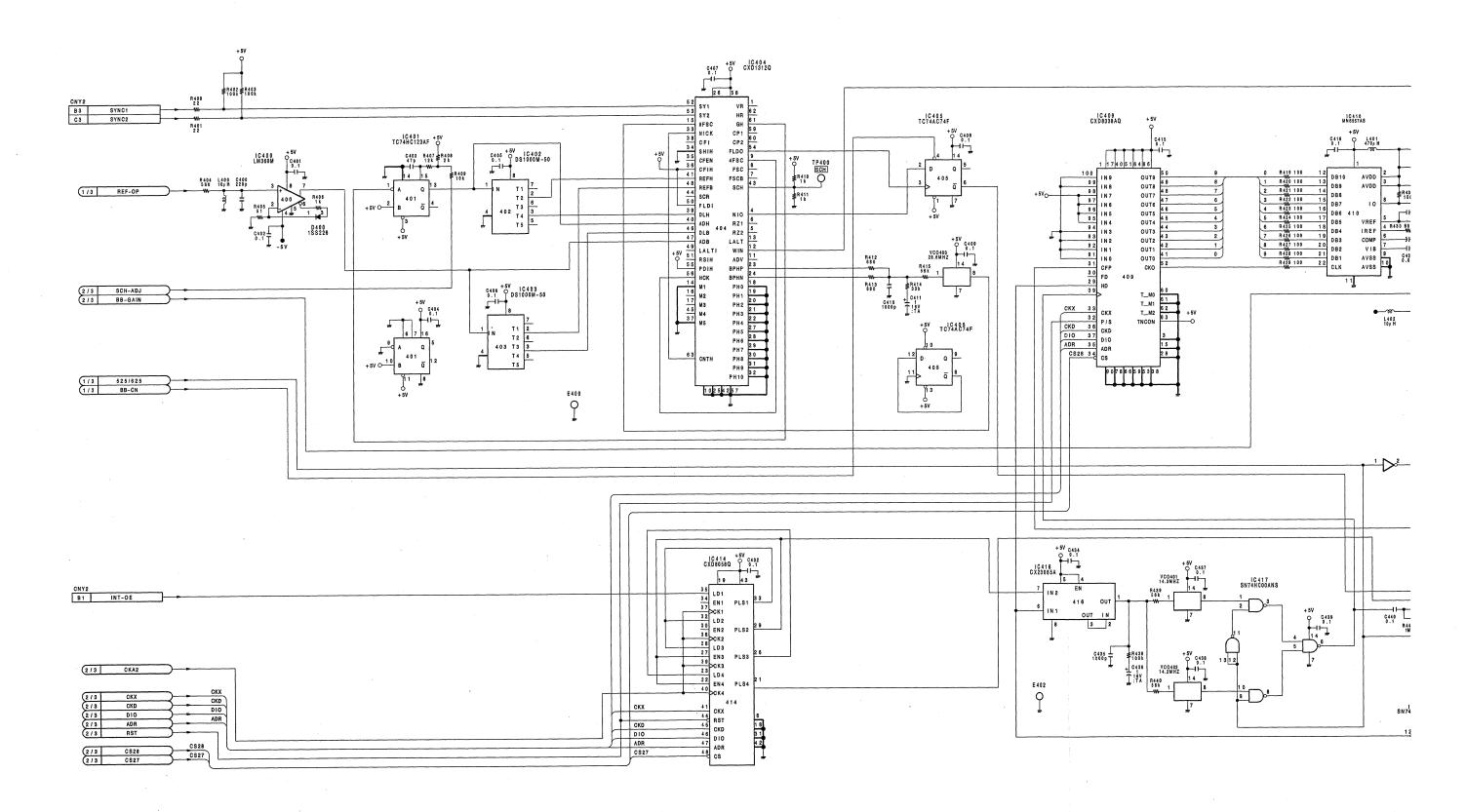
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SD-30 BOARD (2/3)
BOARD NO.1-646-035-11
BKDS-6060

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SD-30(3/3)(BKDS-6060);DIGITAL EDIT PVW/REF OUTPUT BOARD



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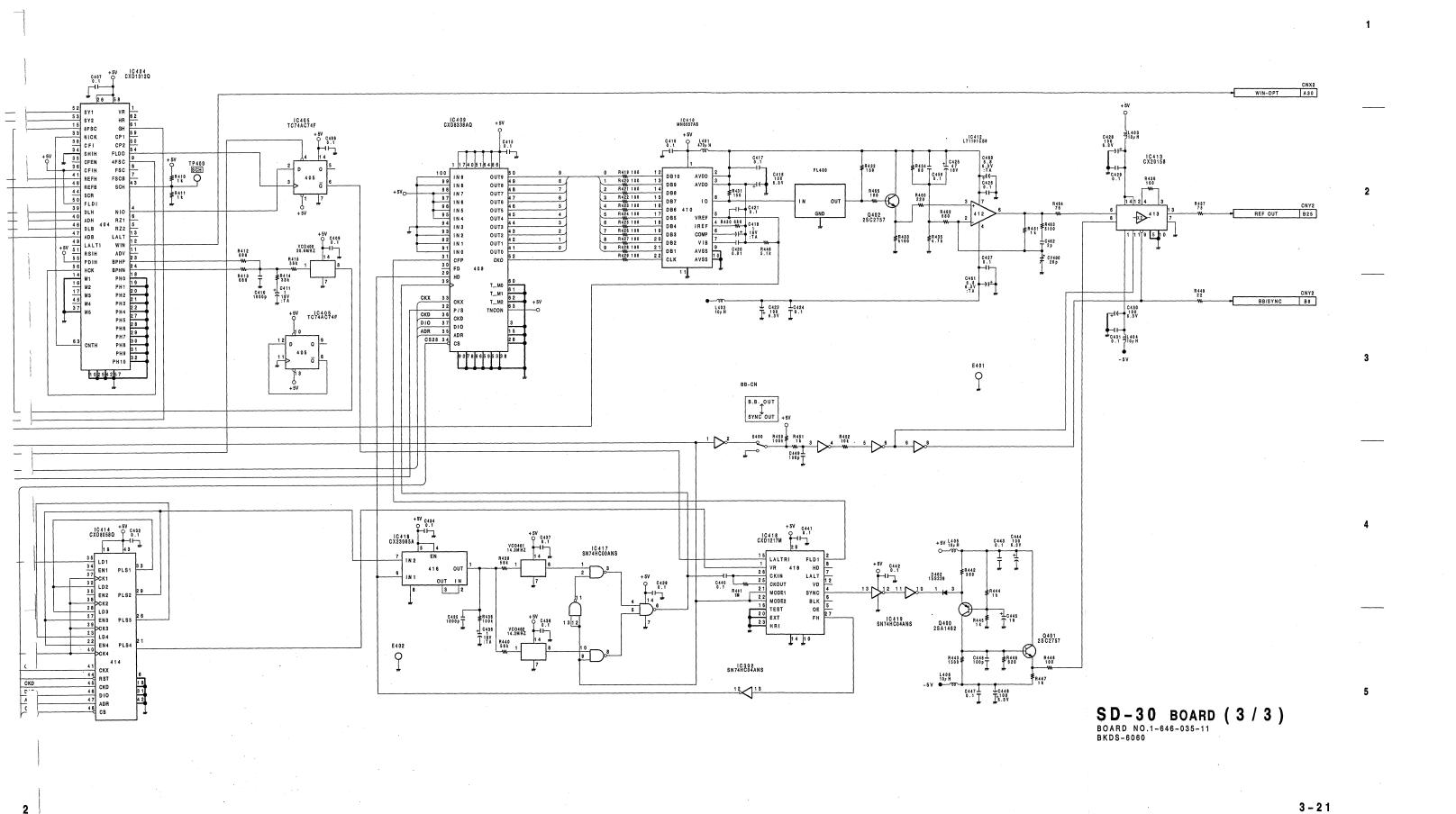
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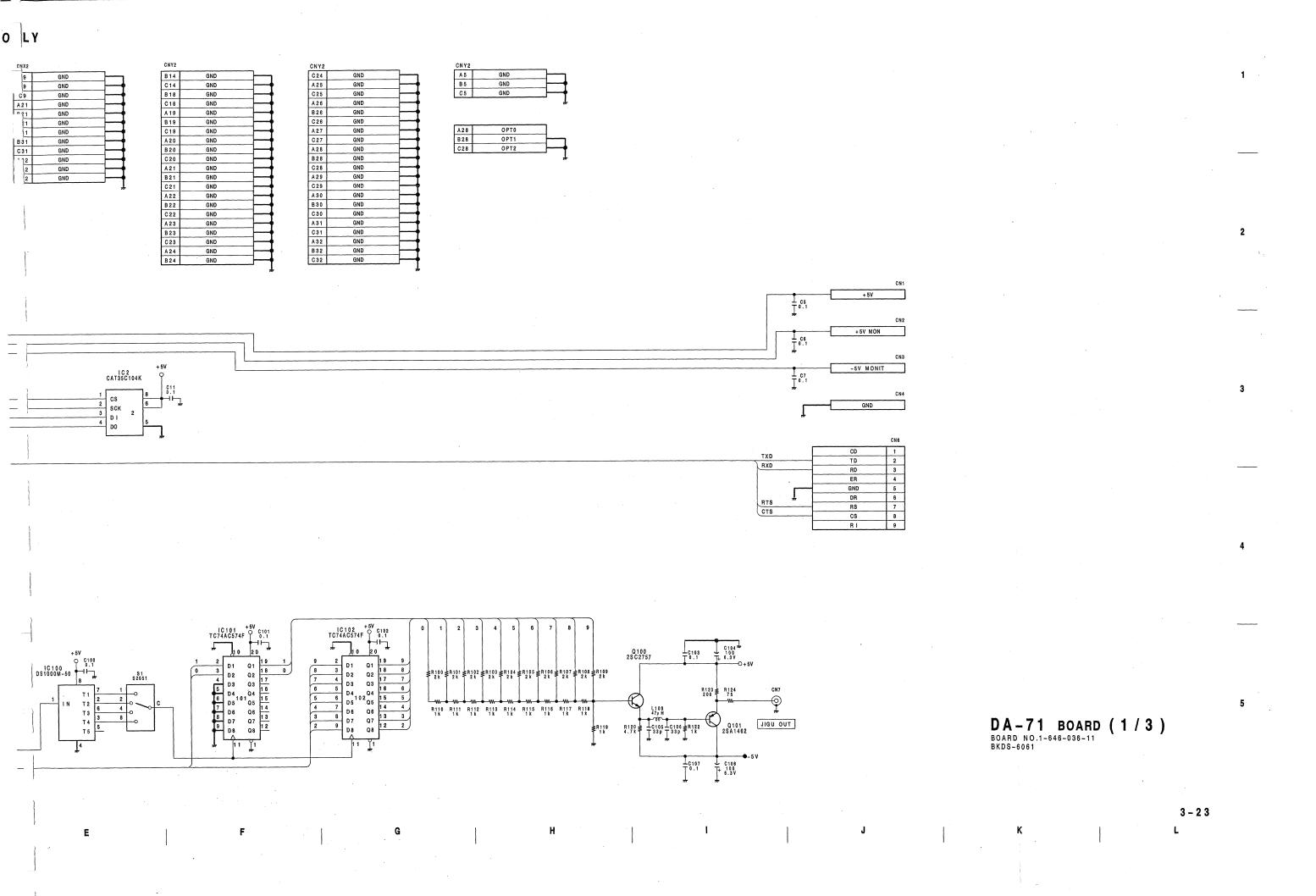
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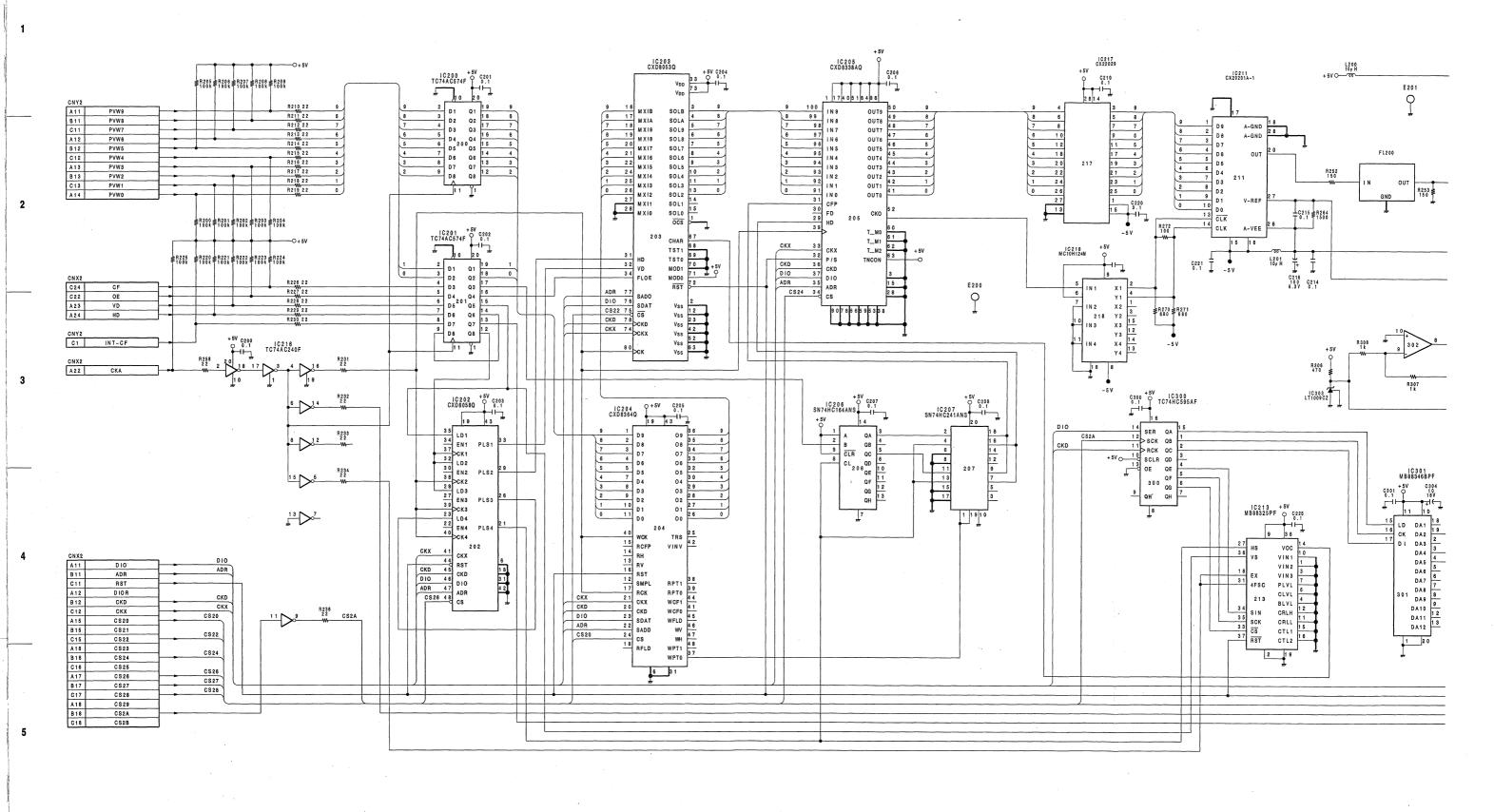


DA-71(1/3)(BKDS-6061); ANALOG EDIT PVW/REF OUTPUT BOARD: DVS-6000 ONLY A1 B1 C1 A2 B2 C2 A3 B3 C2 + C1 0.1 100 6.3 V + 5V GND GND GND + 5V B9 C9 A21 B21 C21 A31 B31 GND GND + 5V GND GND GND GND C 25 + 5V GND A 26 + 5V GND GND B 2 6 B19 GND C26 + 5V GND + 5V OPT1 + 5V OPT2 + 5V C20 A21 GND GND B28 GND GND C28 GND C29 C4 C3 0.1 T+100 6.3 V GND GND A 30 B22 - 5 V -5V -5V GND C31 GND -5V A 3 2 B 3 2 C 3 2 GND GND - 5 V GND - 5 V - 5 V - 5 V -5 V +5V MON1 +5V MON2 -5V MON 1 CS 2 SCK 3 DI 4 DO ROMCS ROMCK ROMD TP1 REF TXD RXD RTS RTS REF-IND R D3 G D3 LN15BP REF-OK REF-NG (DIGITAL T.P.) + 5V 2 D1 Q1 18 0 D2 Q2 17 16 D5 D5 D5 D5 D5 D6 Q6 D7 D7 Q7 D8 Q8 D7 Q7 D8 Q8 D7 Q7 D8 Q8 D8 2 3 4 5 6 7 8 9 D9 D8 D7 D 6 D5 D4 R110 R111 R112 R113 R114 R115 R116 R117 R118 1k 1k 1k 1k 1k 1k 1k 1k D3 D 2 R119 R120 ₹ D1 D 0 CK IN GND 3 – 2 3



DA-71(1/3) BKDS-6061

DA-71(2/3)(BKDS-6061); ANALOG EDIT PVW/REF OUTPUT BOARD: DVS-6000 ONLY



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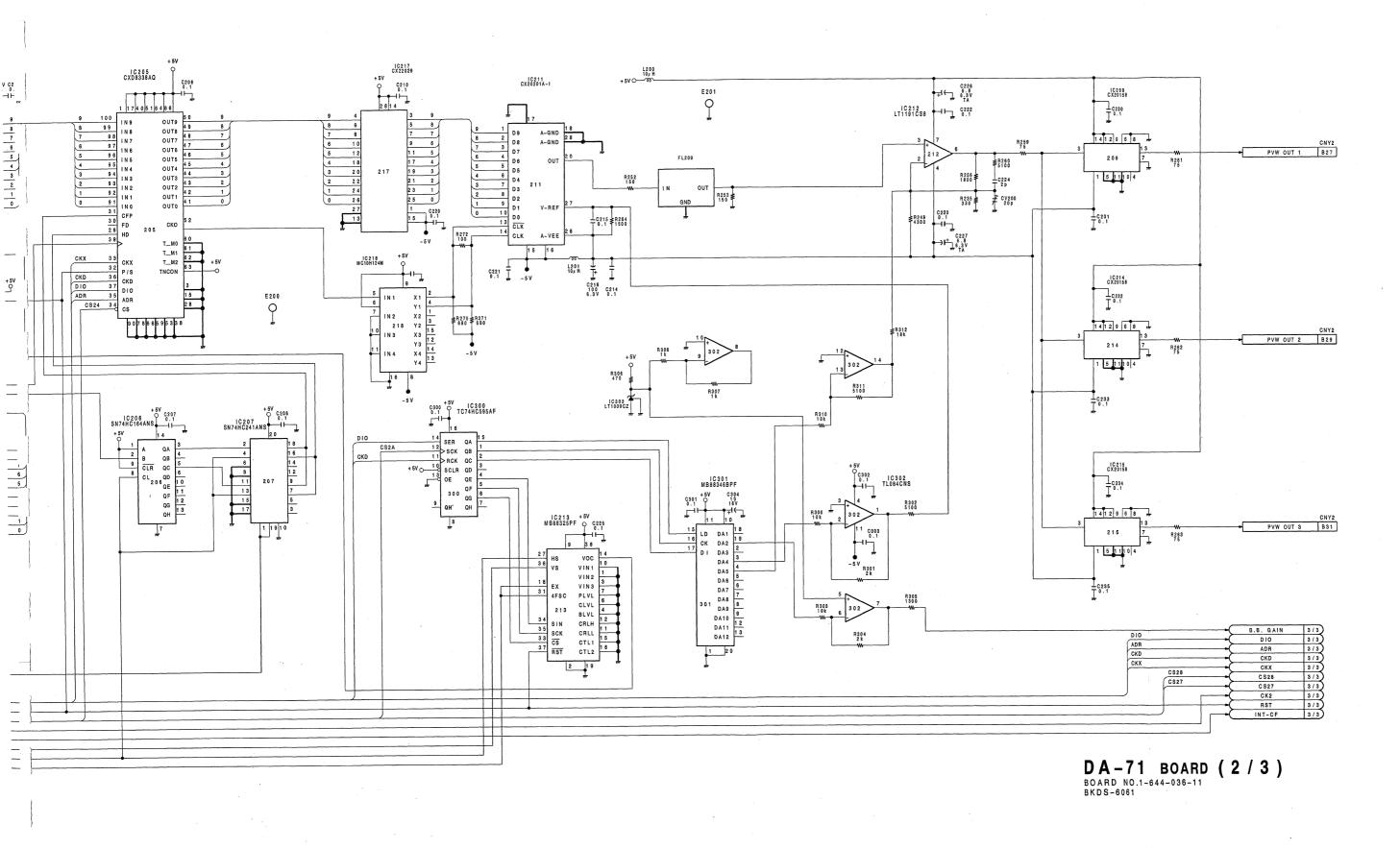
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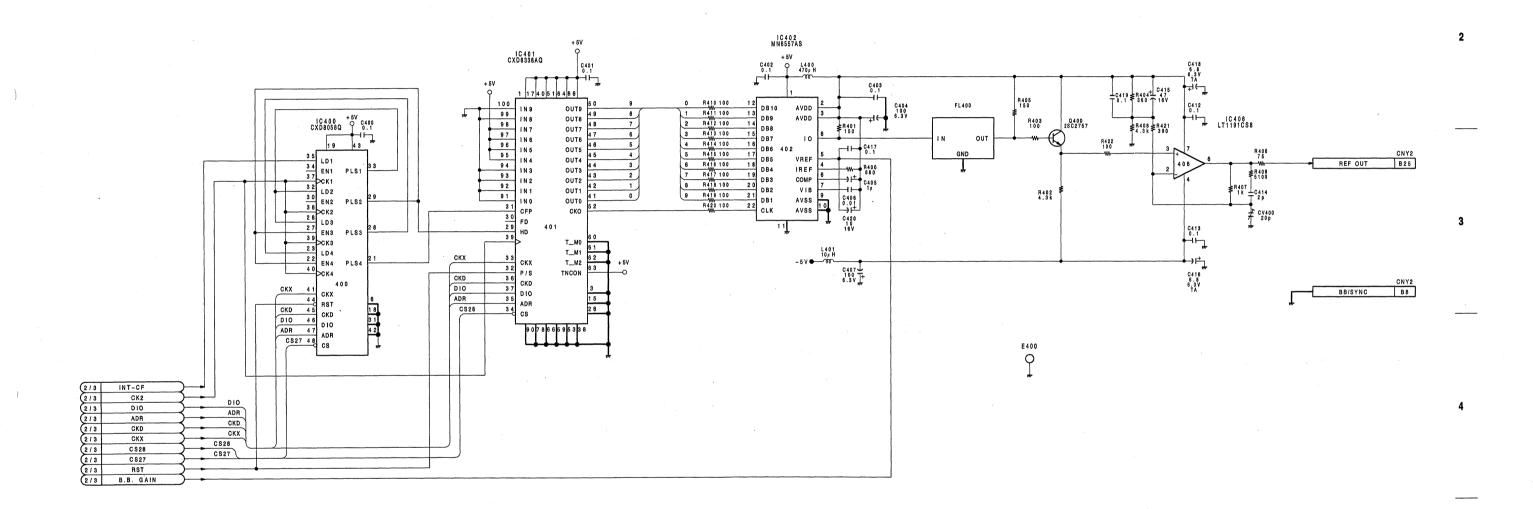
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DA-71(3/3)(BKDS-6061); ANALOG EDIT PVW/REF OUTPUT BOARD: DVS-6000 ONLY



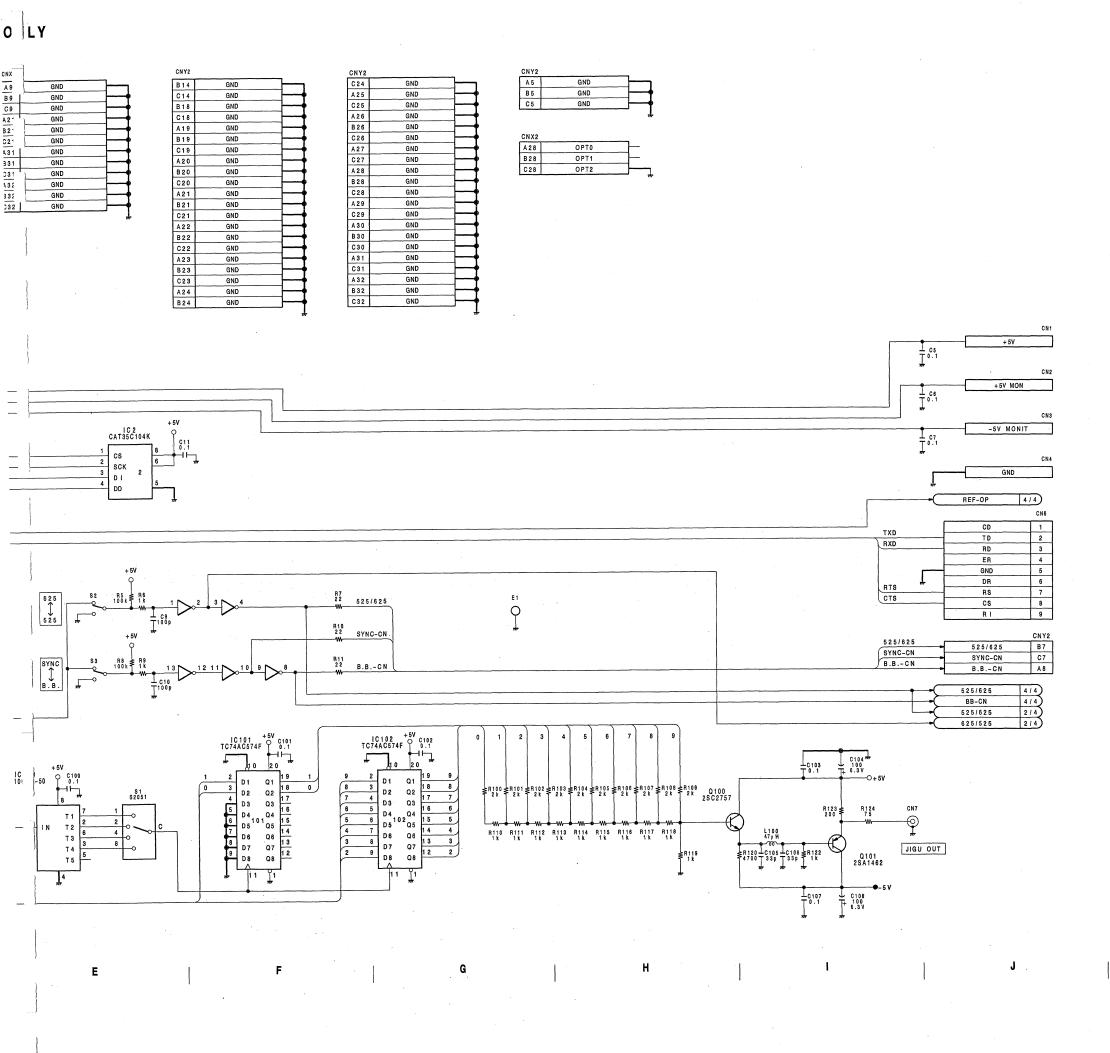
DA-71 BOARD (3/3)
BOARD NO.1-646-036-11
BKDS-6061

3 – 2 5

3 – 2 5

DA-72(1/4)(BKDS-6062); ANALOG EDIT PVW/REF OUTPUT BOARD: DVS-6000C ONLY A1 B1 C1 A2 B2 C2 A3 B3 C3 A4 B4 C4 T C2 + C1 C1 100 6.3V B14 C14 B18 GND GND GND + 5V + 5V GND GND GND GND C26 A27 C27 A28 B28 C28 A29 C29 A30 B30 GND GND OPT0 OPT1 + 5V GND GND + 5V GND GND GND A21 B21 C21 A22 GND GND GND GND I C4 J C3 T+100 6.3V GND - 5 V B22 GND GND -5 V GND -5 V A31 C31 A32 B32 C32 GND GND GND -5 V GND - 5 V - 5 V -5V +5V MON1 -5V MON 1 CS SCK DI ROMCS ROMCK ROMD TP1 REF CNY2 A3 REF-OP TXD RXD RXD R7 22 525/625 RTS R10 22 SYNC-CN REF-IND REF-OK B.B.-CN R H G REF-NG CNY2 R3 ≱ R4 100k ≯ 1k D1/D2 (DIGITAL T.P.) + 5V R125 100 9 R126 100 8 R127 100 7 D 9 | \$\frac{1}{2}k \big| \frac{1}{2}k \big| \frac{1}{2 R130 100 4 R131 100 3 D 3 R110 R111 R112 R113 R114 R115 R116 R117 R118 1k R132 100 2 D 2 R133 100 1 R134 100 0 R135 100 D 1 D 0 CK IN

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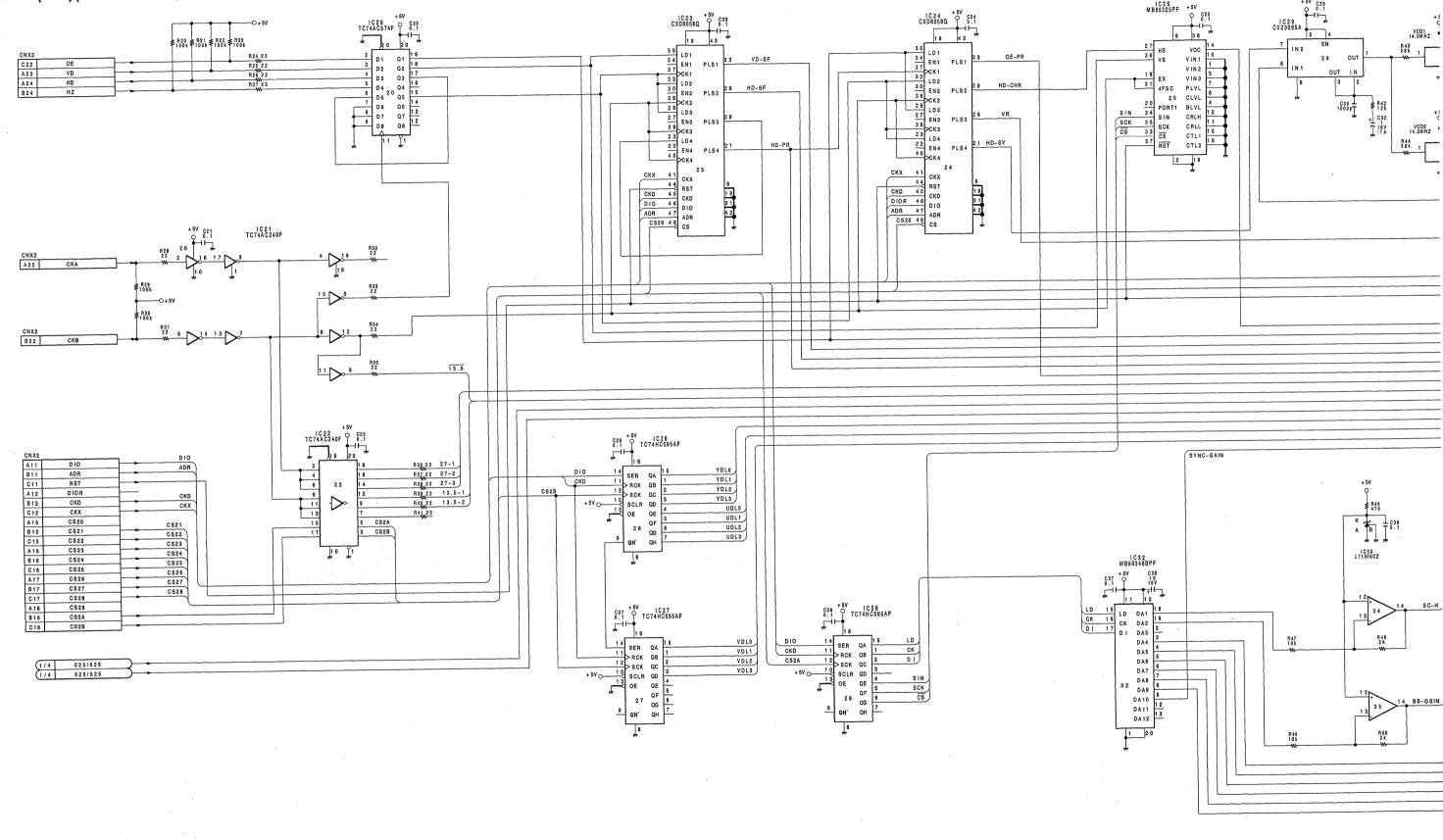


DA-72(1/4)BKDS-6062

DA-72 BOARD (1/4)
BOARD NO.1-646-037-11
BKDS-6062

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DA-72(2/4)(BKDS-6062); ANALOG EDIT PVW/REF OUTPUT BOARD: DVS-6000C ONLY



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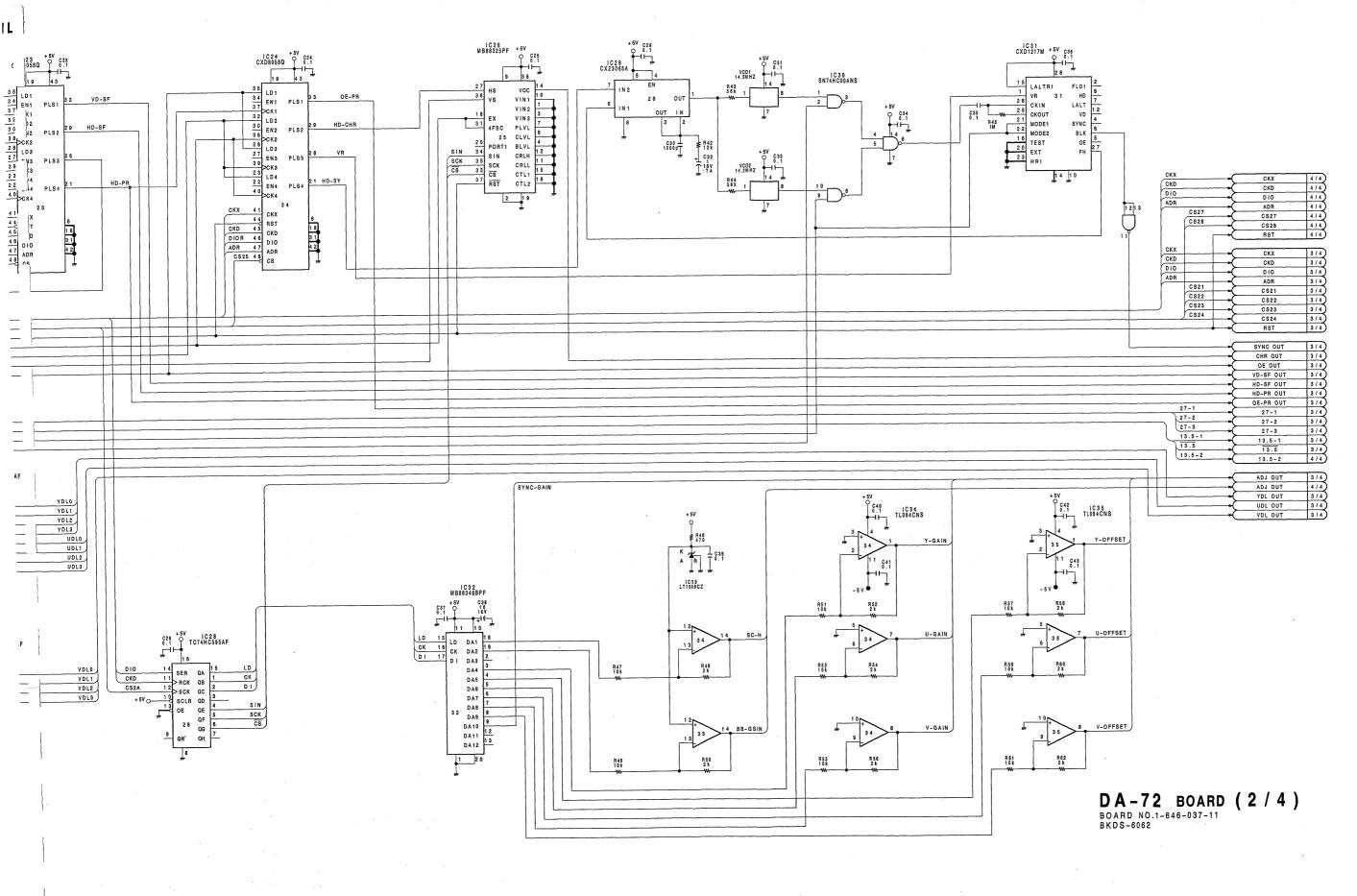
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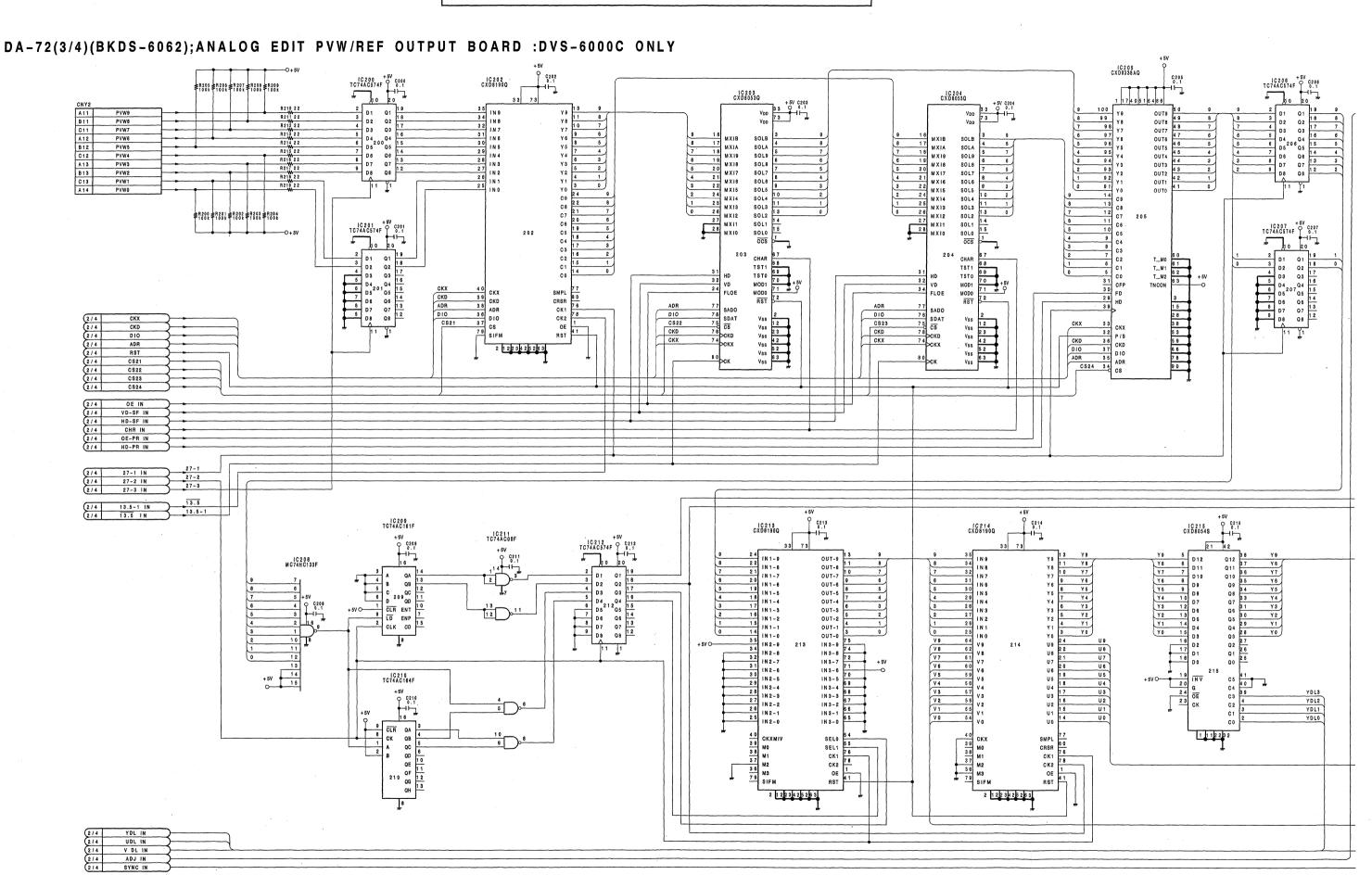
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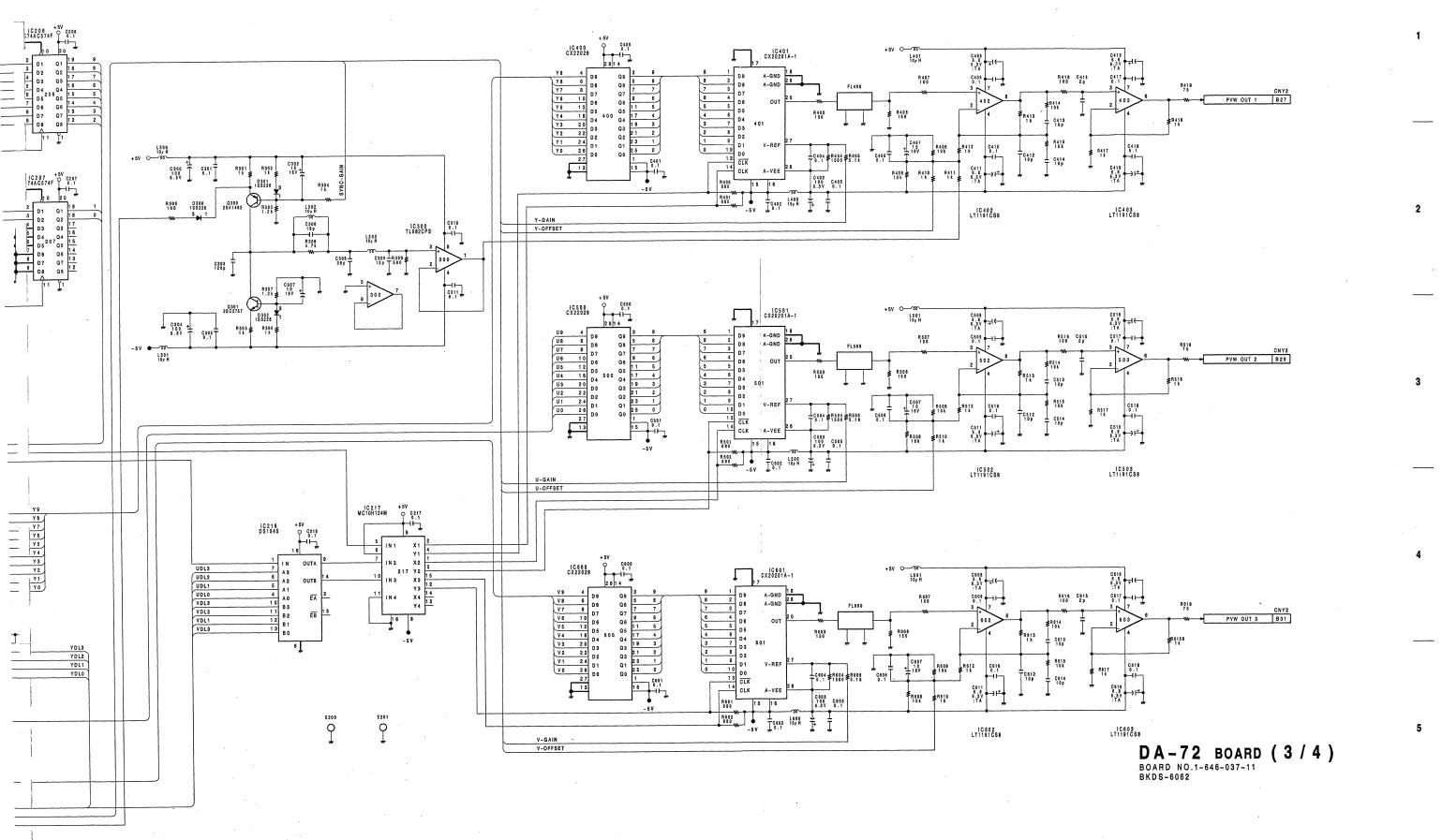
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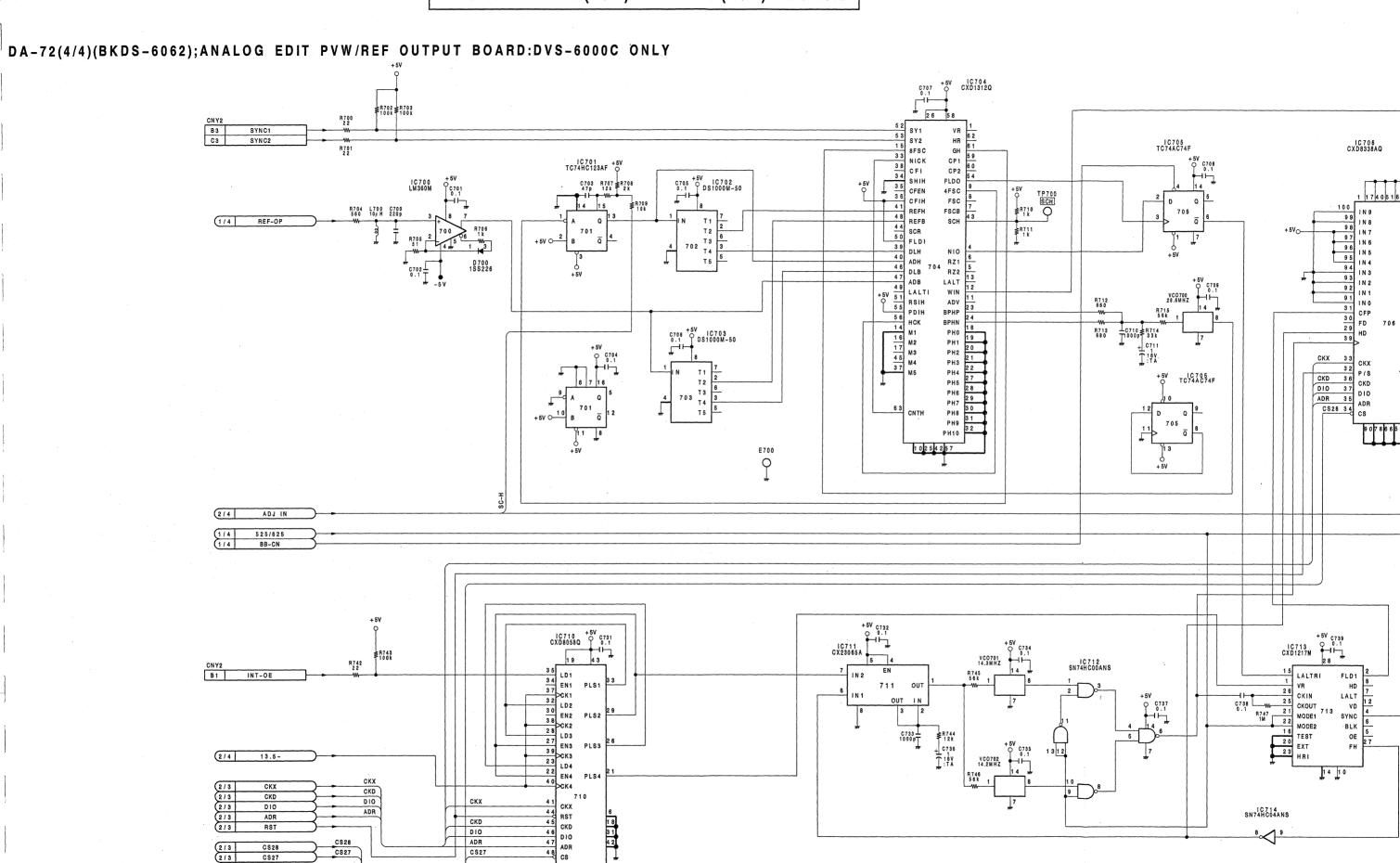
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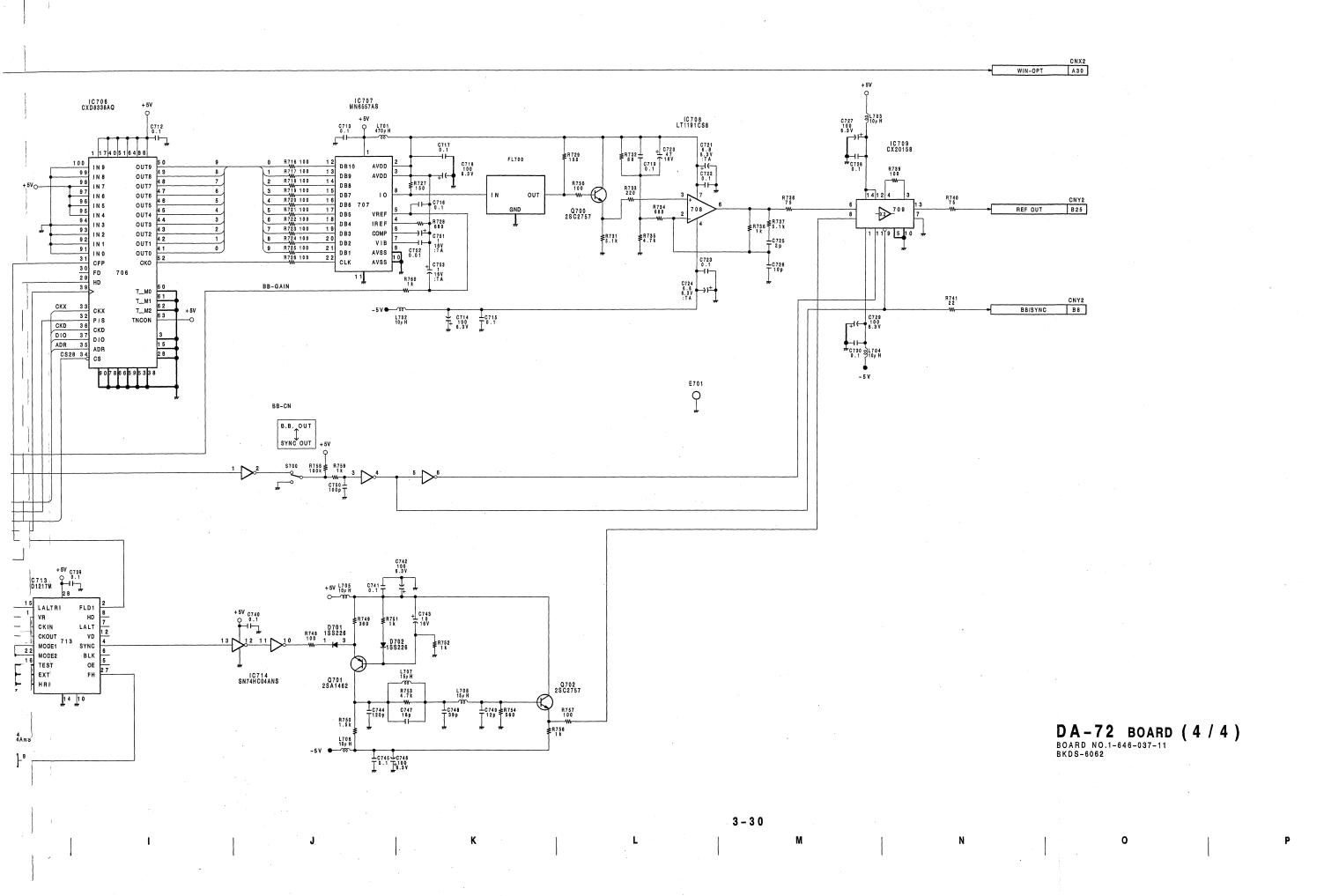
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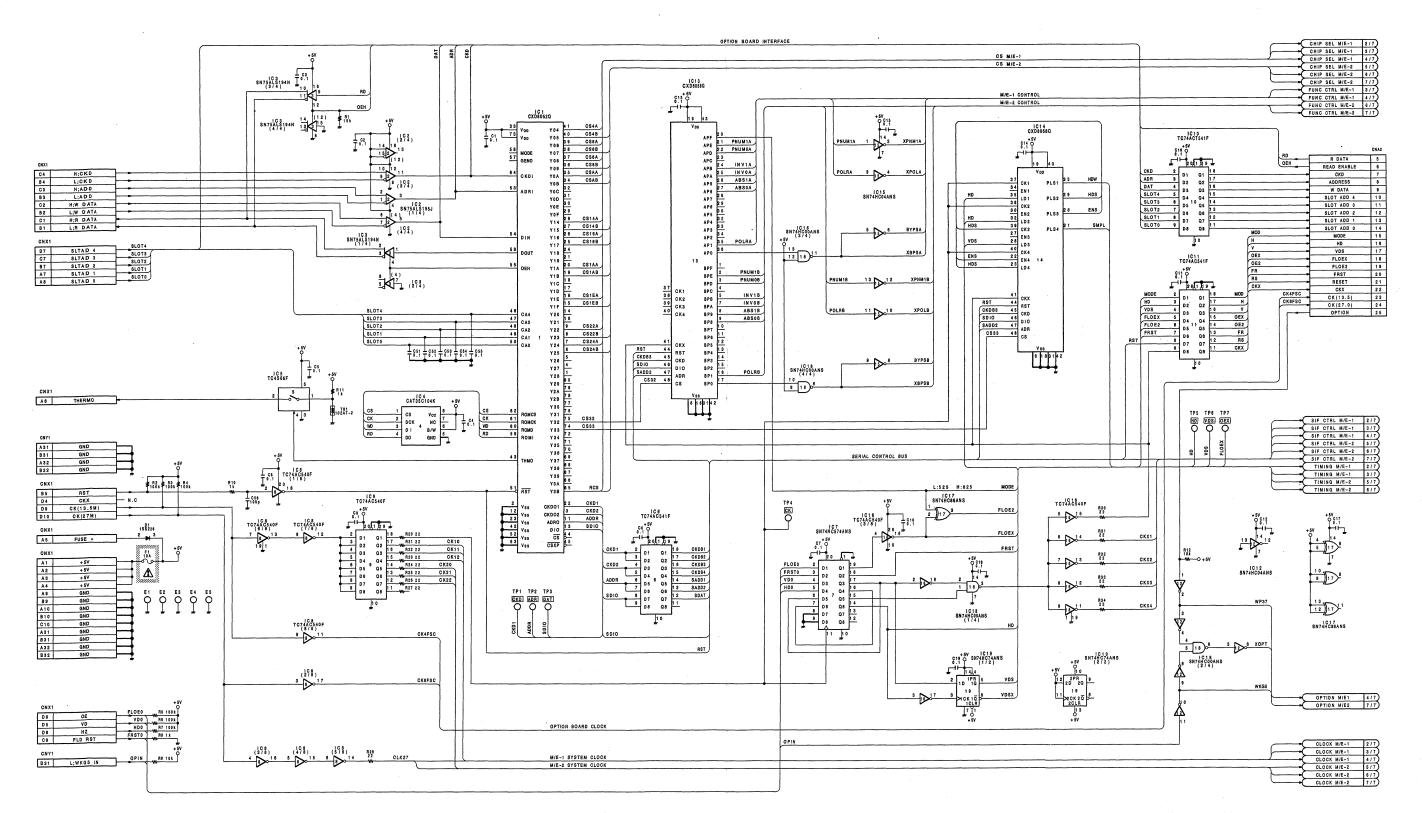
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WKG-10(1/7); WIPE GENERATOR BOARD

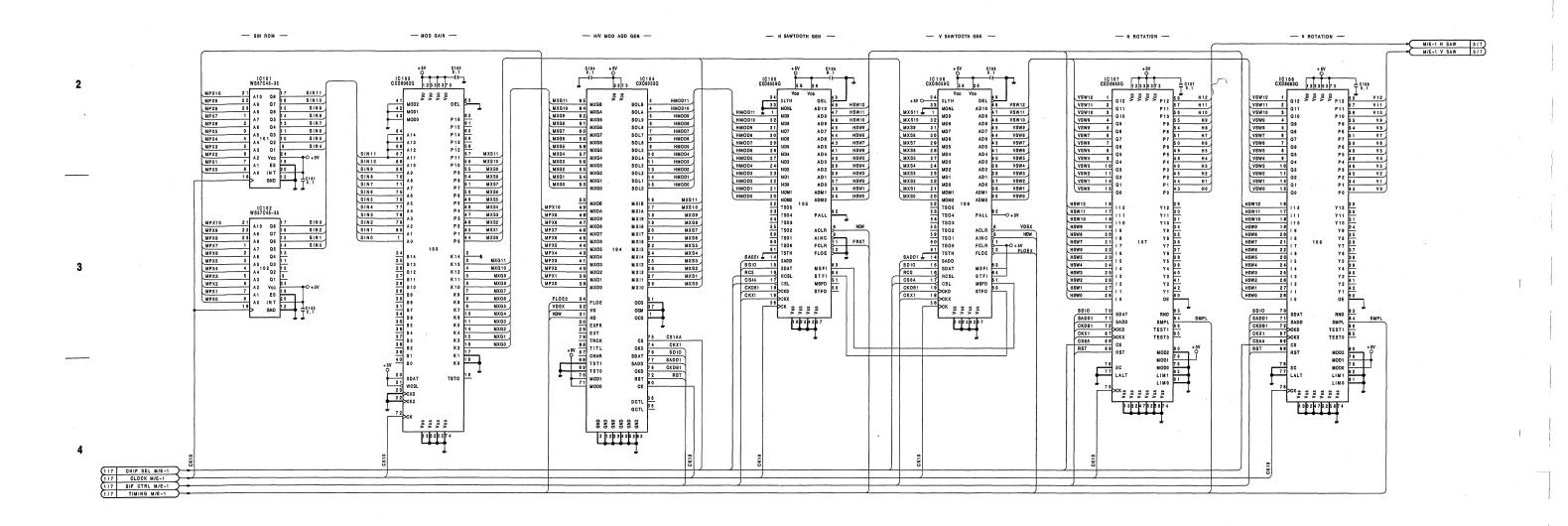


WKG-10 BOARD (1 / 7)
BOARD NO.1-646-025-11
DVS-6000/6000C

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WKG-10(2/7); WIPE GENERATOR BOARD



WKG-10 BOARD (2/7)
BOARD NO.1-646-025-11
DVS-6000/6000C

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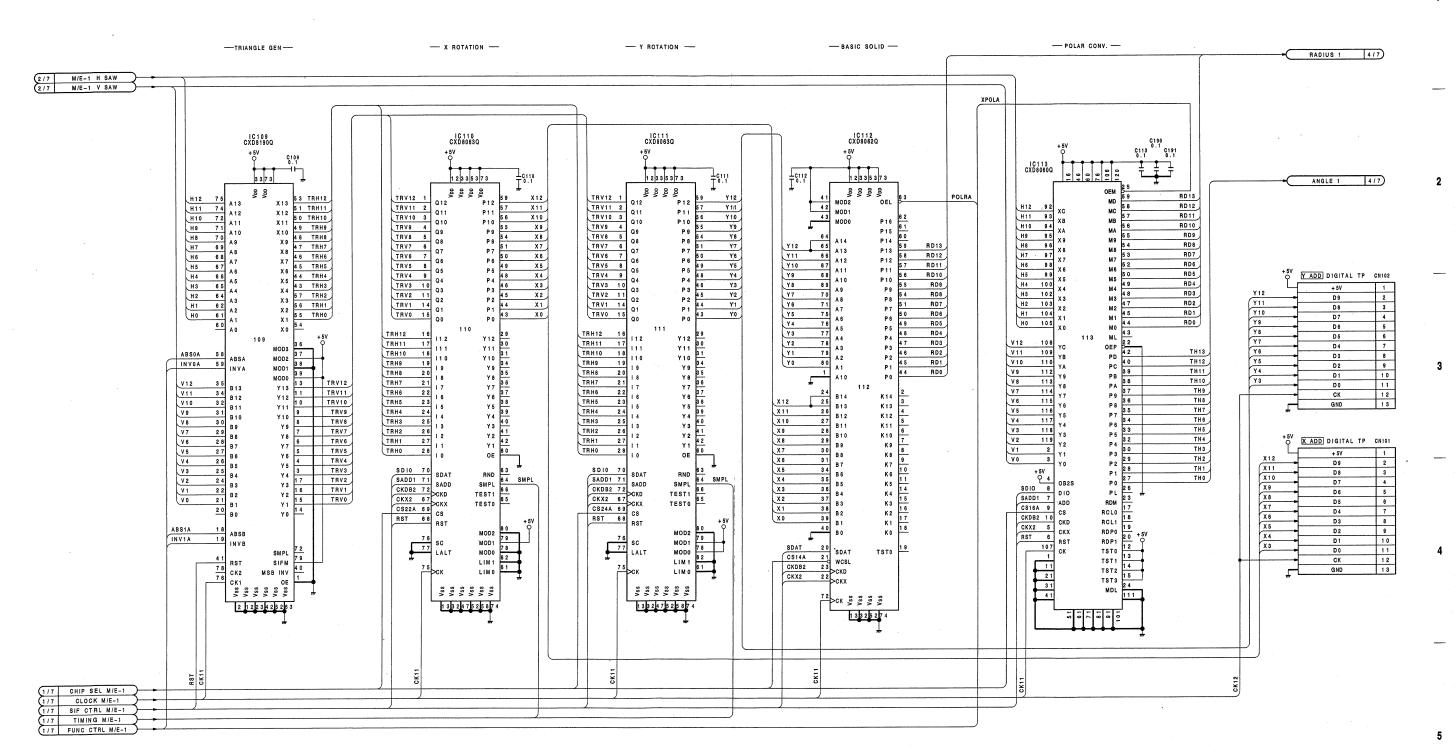
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WKG-10(3/7); WIPE GENERATOR BOARD



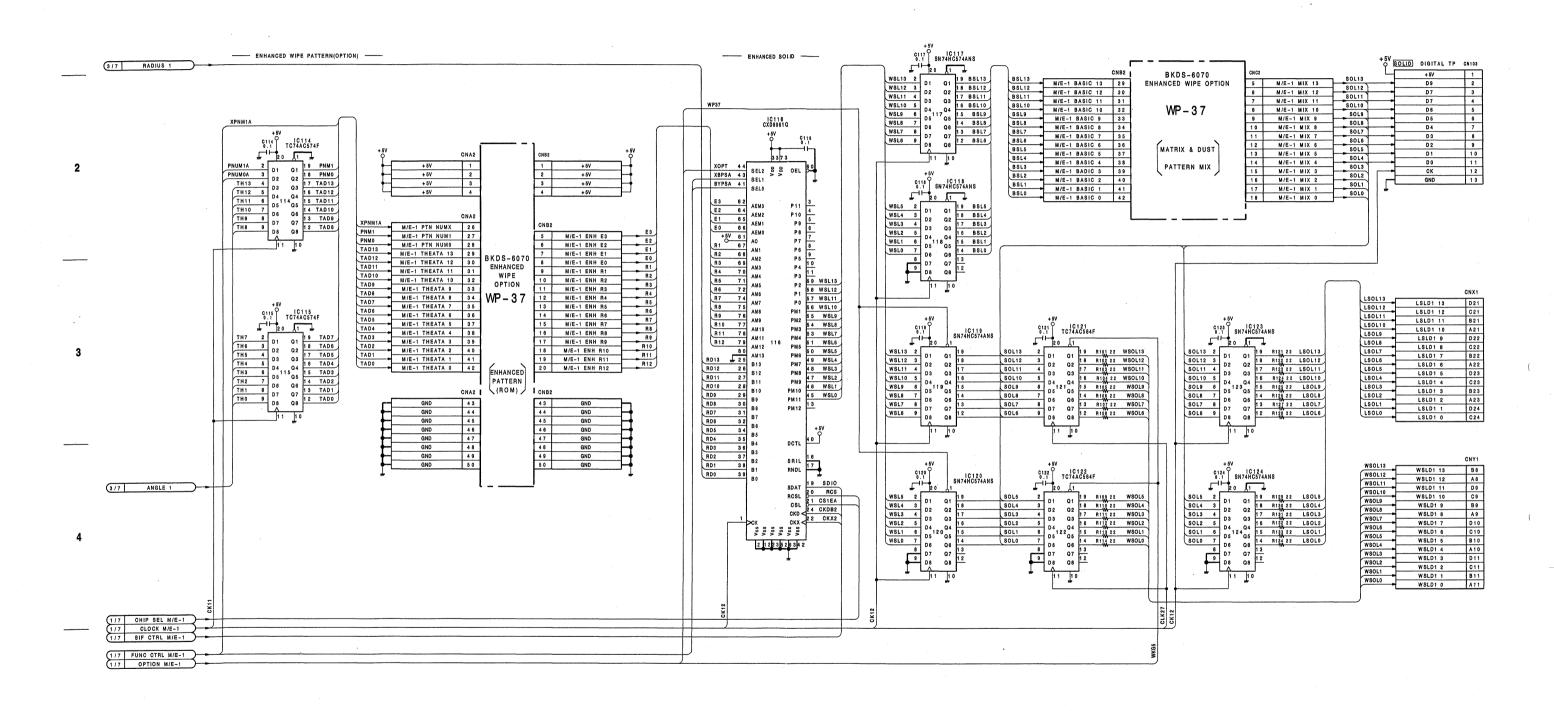
WKG-10 BOARD (3/7)

BOARD NO.1-646-025-11 DVS-6000/6000C

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WKG-10(4/7); WIPE GENERATOR BOARD



WKG-10 BOARD (4/7)

BOARD NO.1-646-025-11 DVS-6000/6000C

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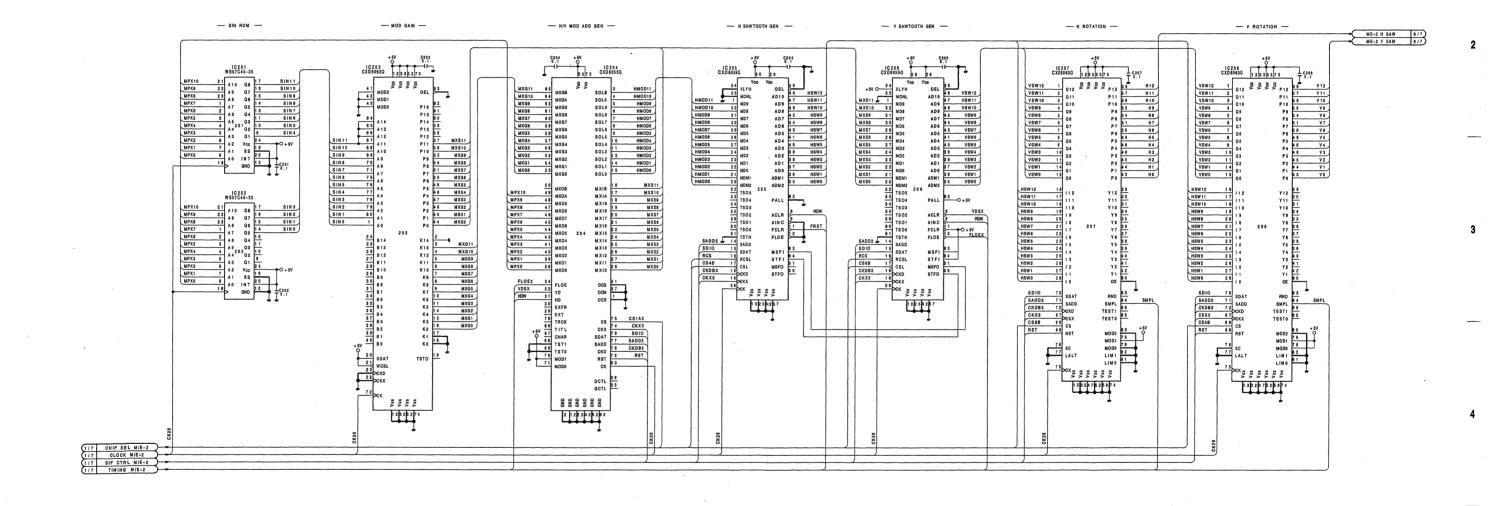
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WKG-10(5/7); WIPE GENERATOR BOARD



WKG-10 BOARD (5 / 7)
BOARD NO.1-646-025-11
DVS-6000/6000C

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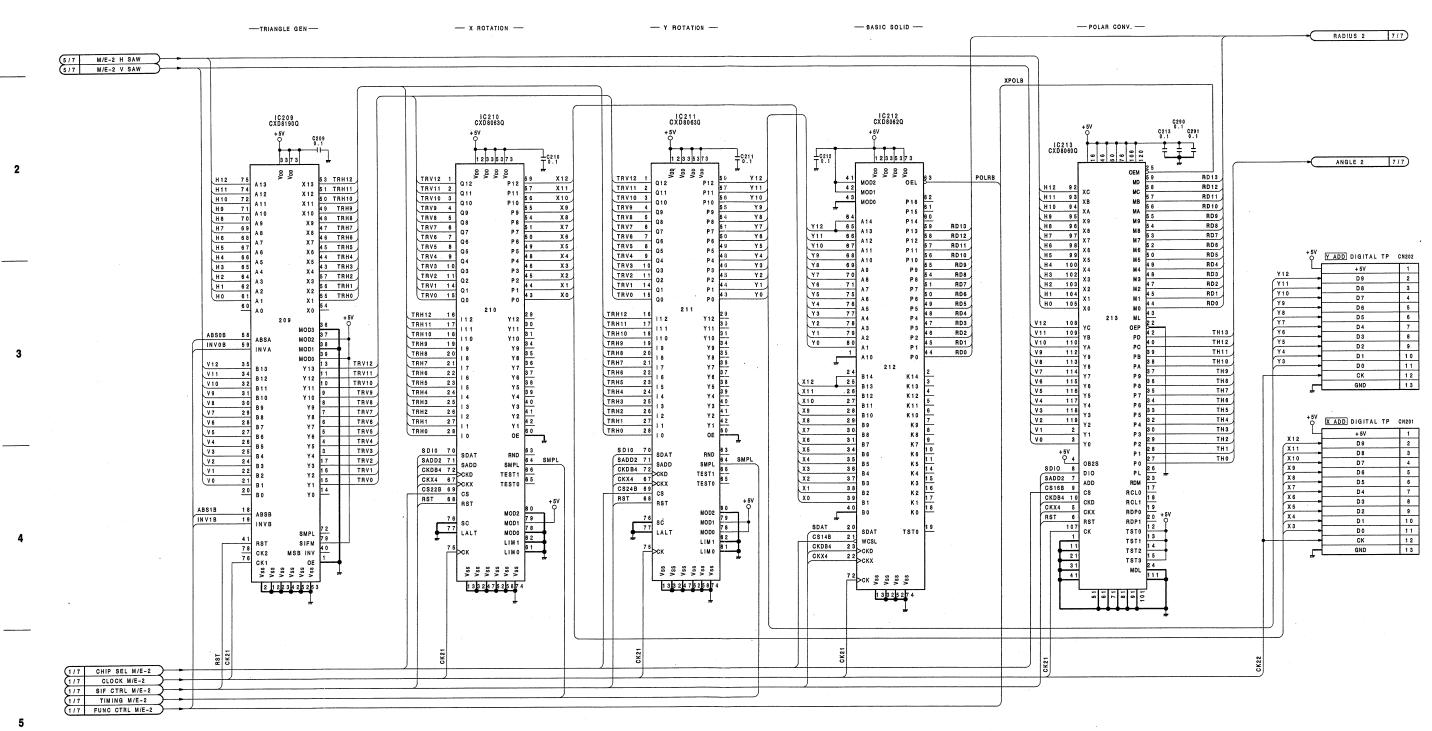
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WKG-10(6/7); WIPE GENERATOR BOARD

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WKG-10 BOARD (6./7)

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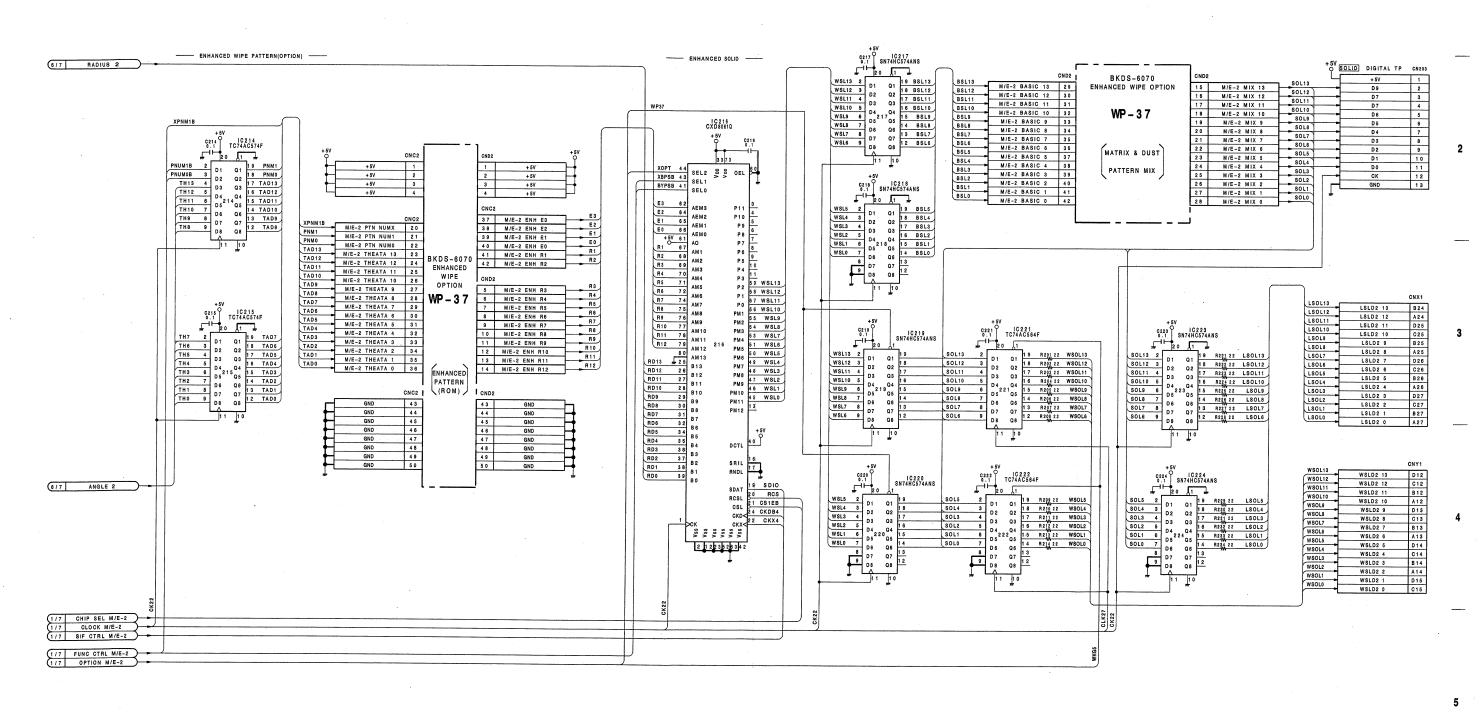
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DVS-6000/6000C

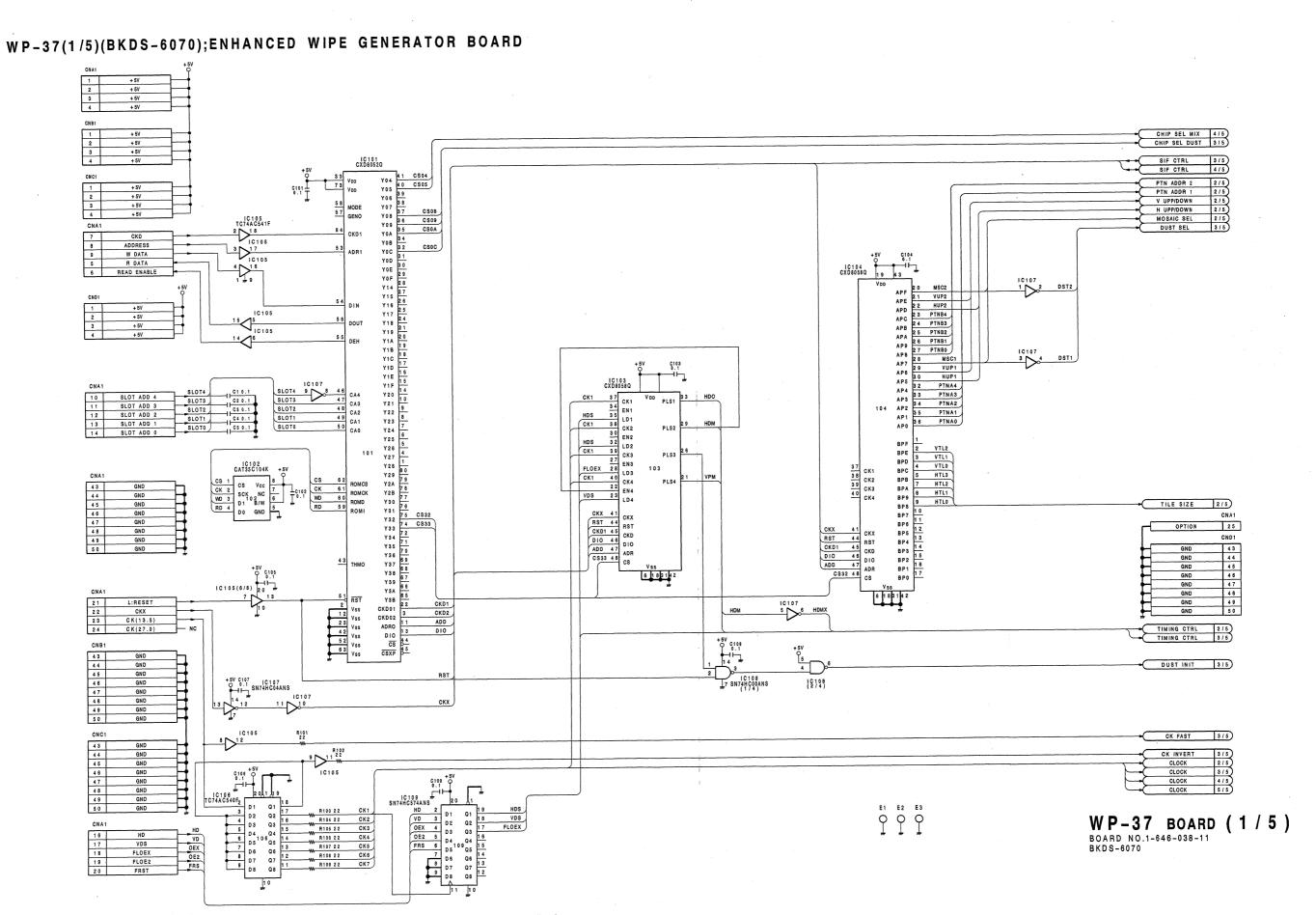
WKG-10(7/7); WIPE GENERATOR BOARD



WKG-10 BOARD (7/7) BOARD NO.1-646-025-11 DVS-6000/6000C

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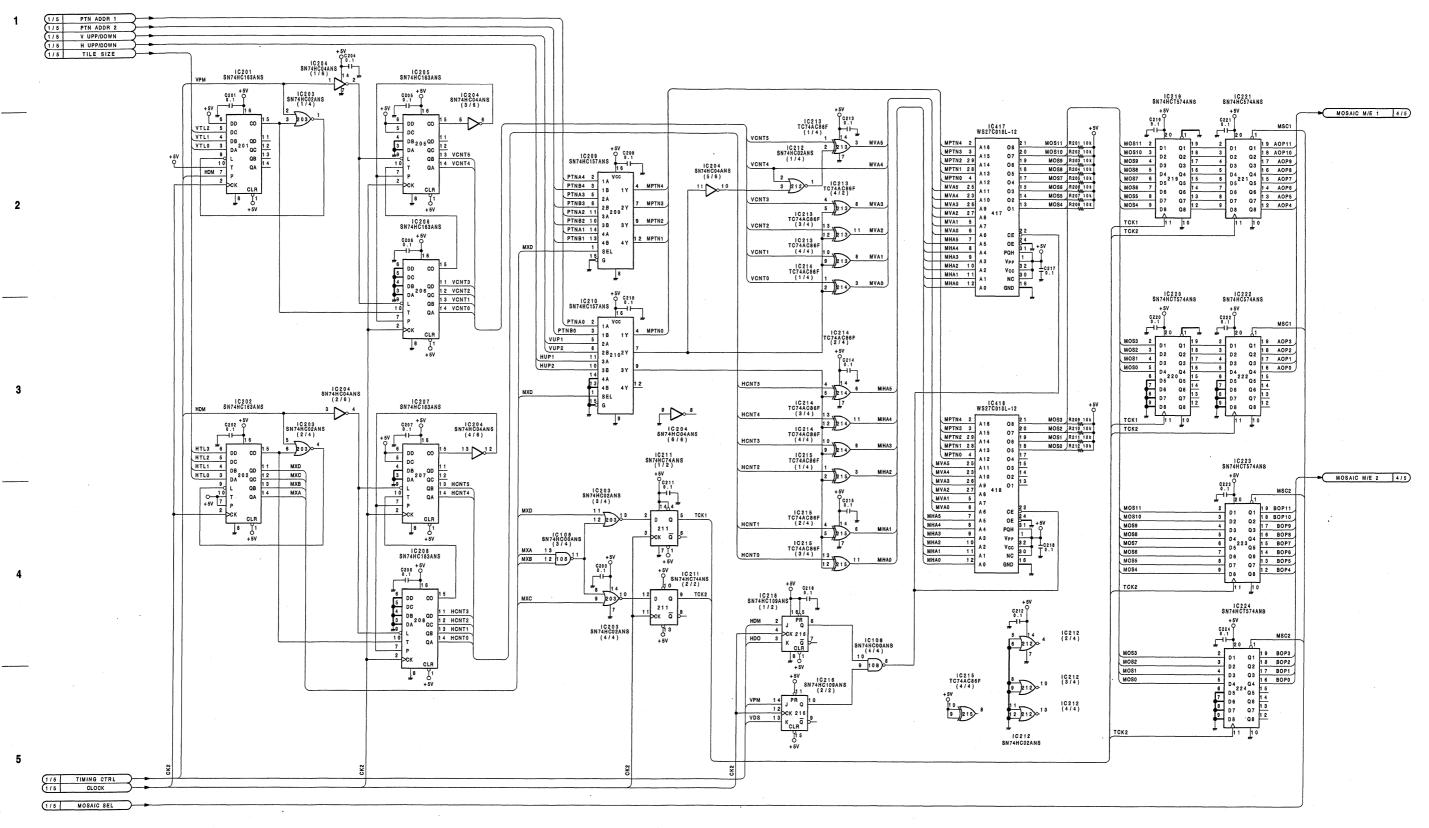
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WP-37(2/5)(BKDS-6070); ENHANCED WIPE GENERATOR BOARD



WP-37 BOARD (2/5) BOARD NO.1-646-038-11 BKDS-6070

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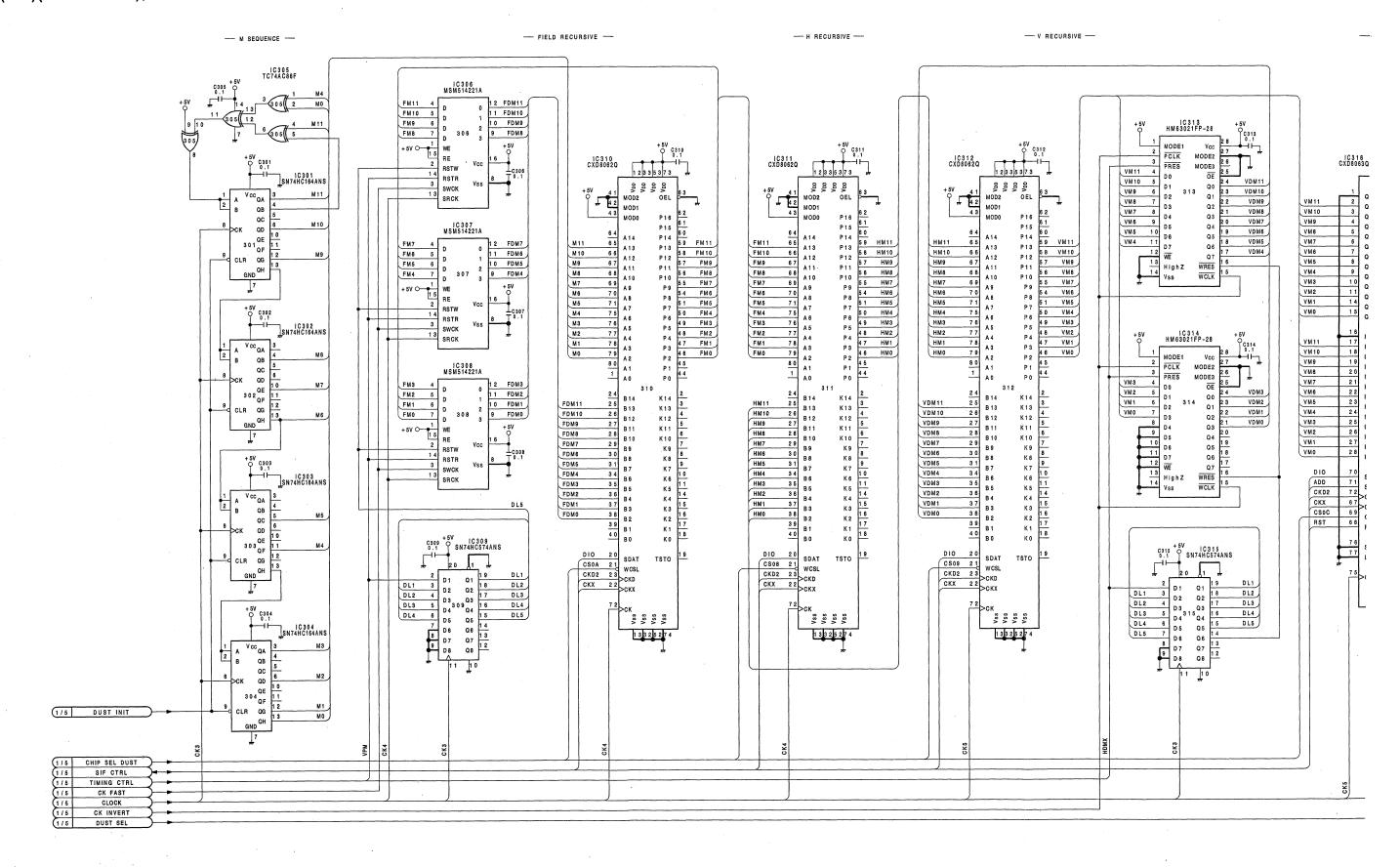
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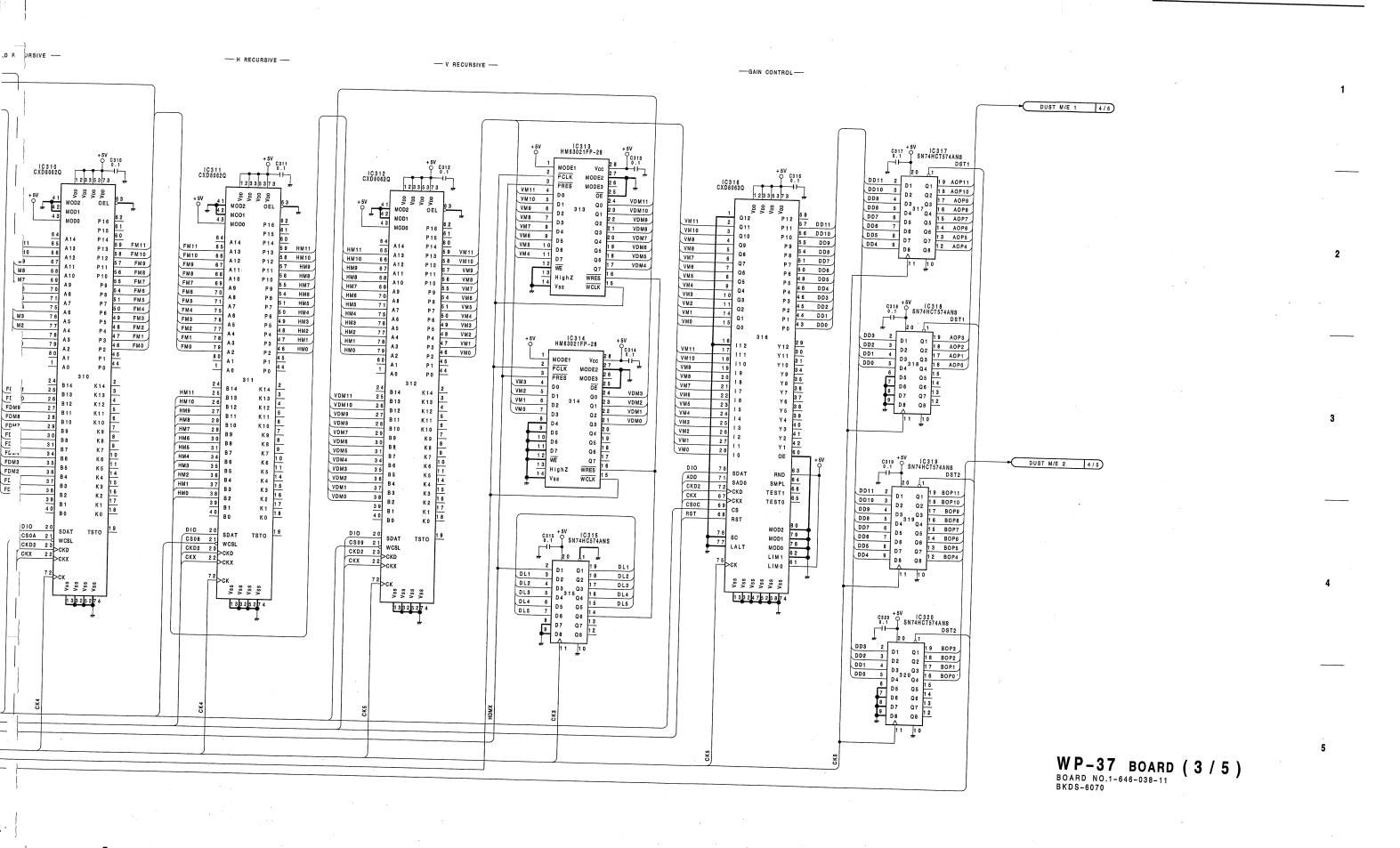
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WP-37(3/5)(BKDS-6070); ENHANCED WIPE GENERATOR BOARD



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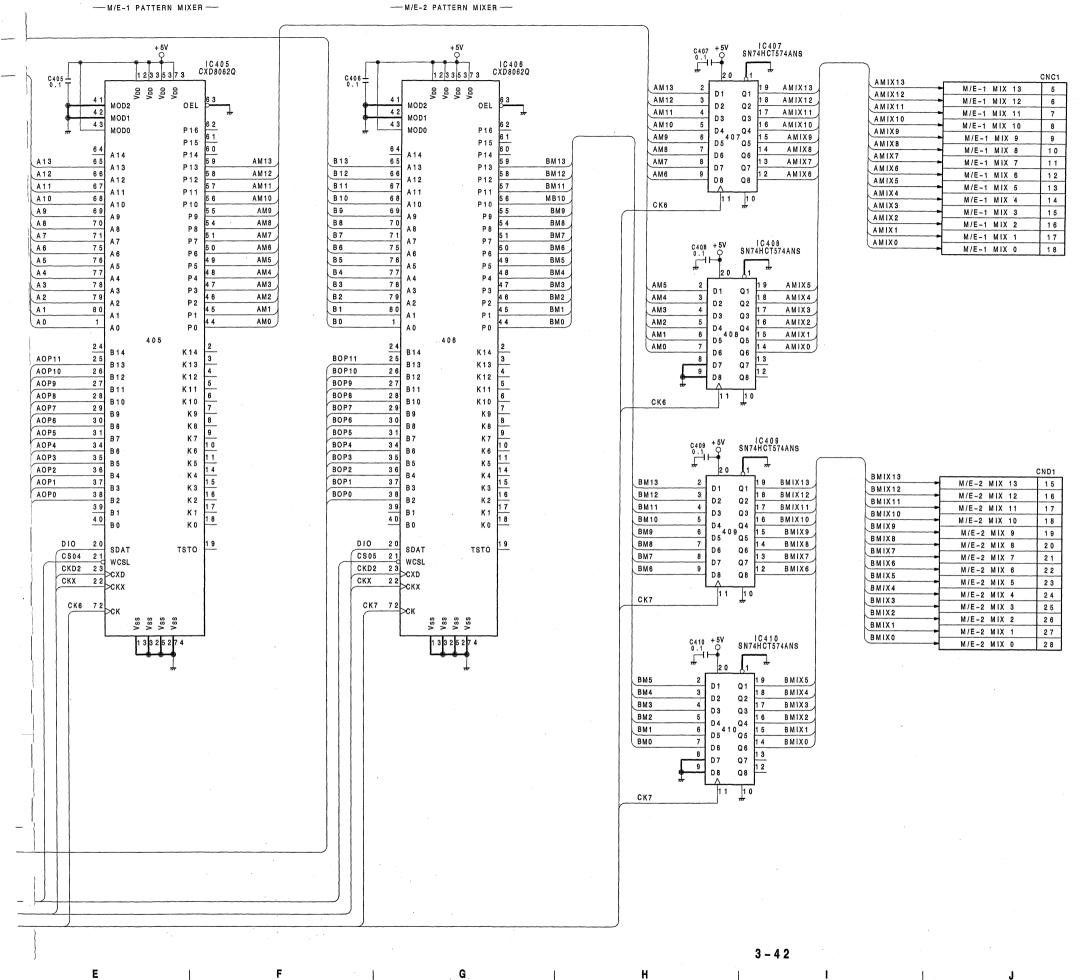
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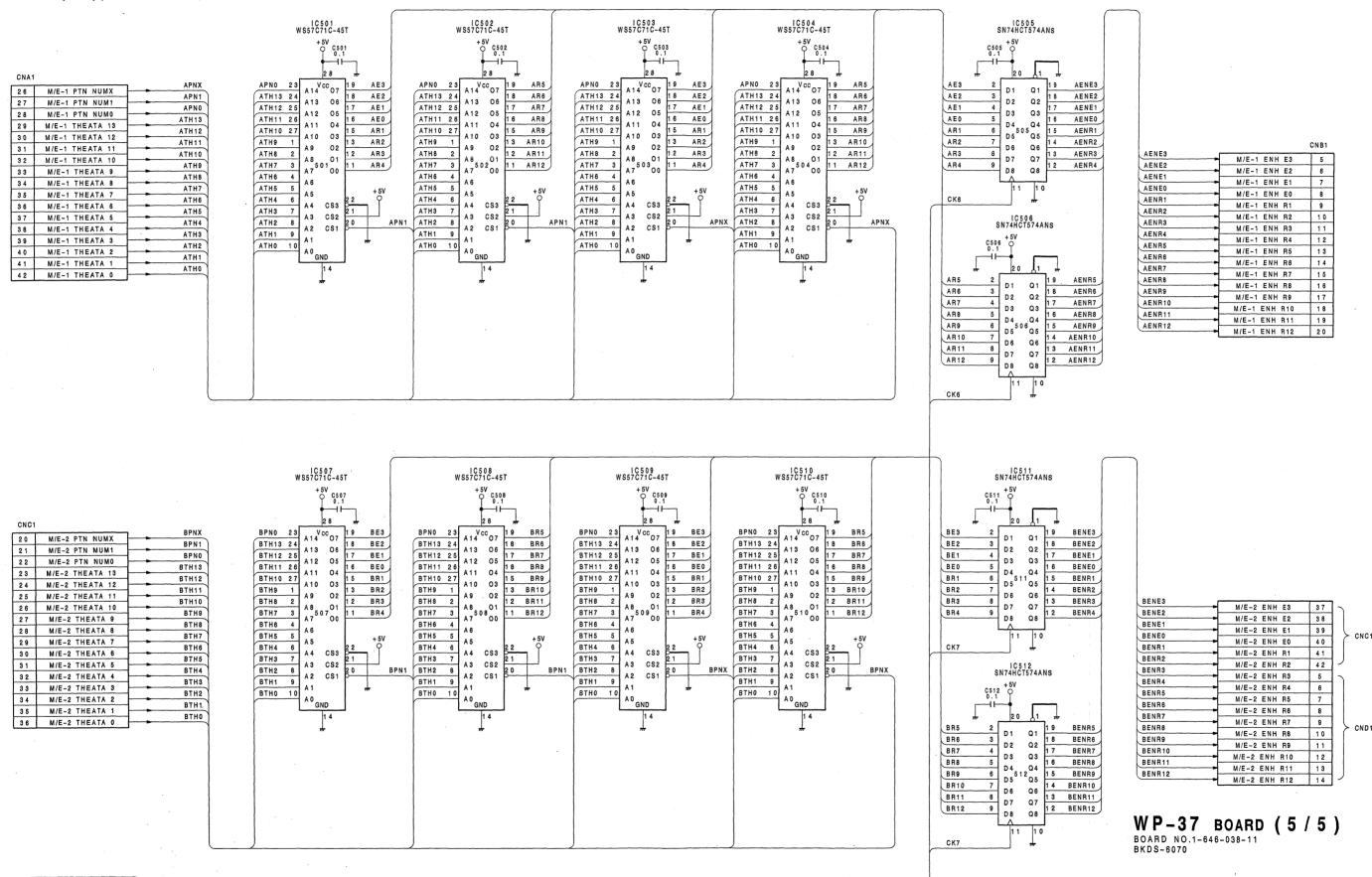
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WP-37 BOARD (4/5) BOARD NO.1-646-038-11

BKDS-6070

WP-37(5/5)(BKDS-6070); ENHANCED WIPE GENERATOR BOARD



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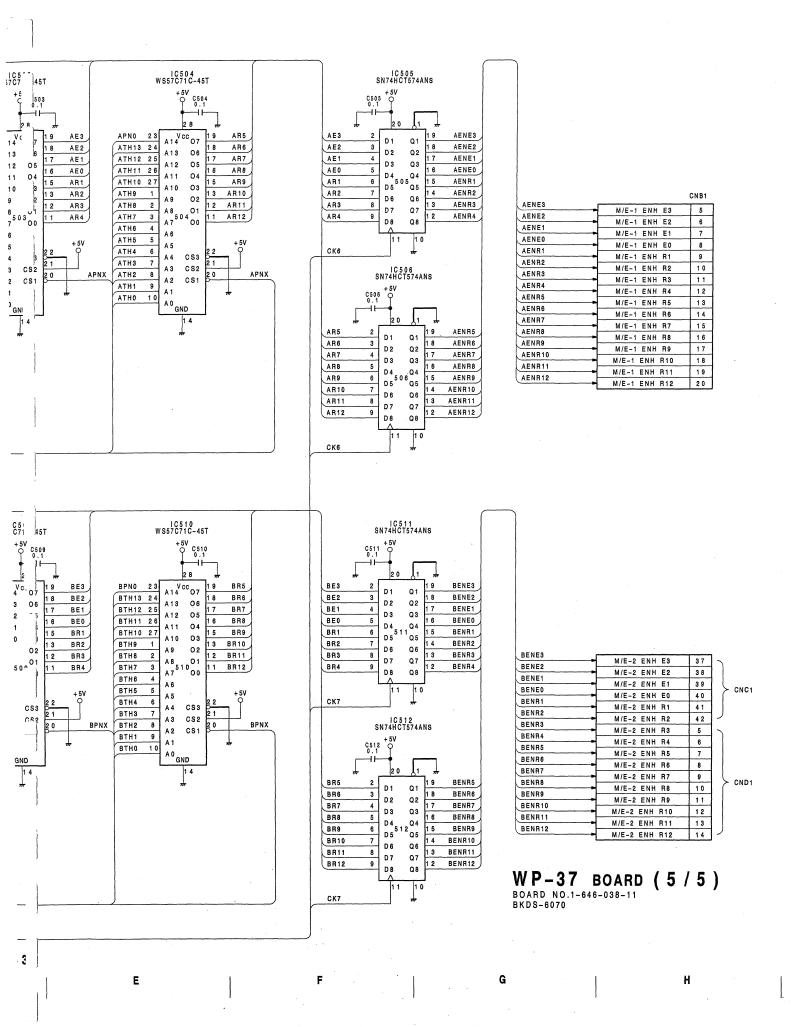
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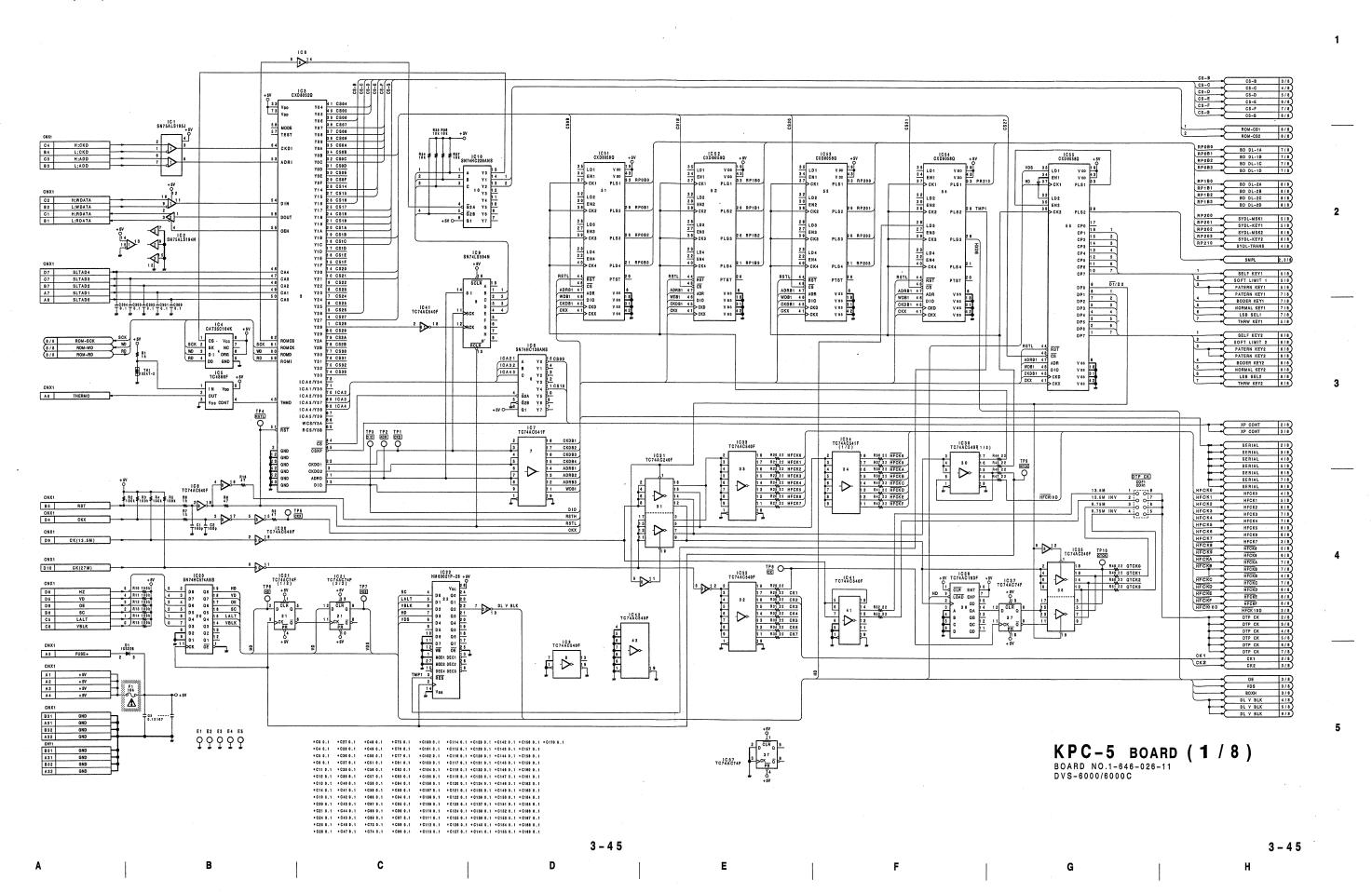
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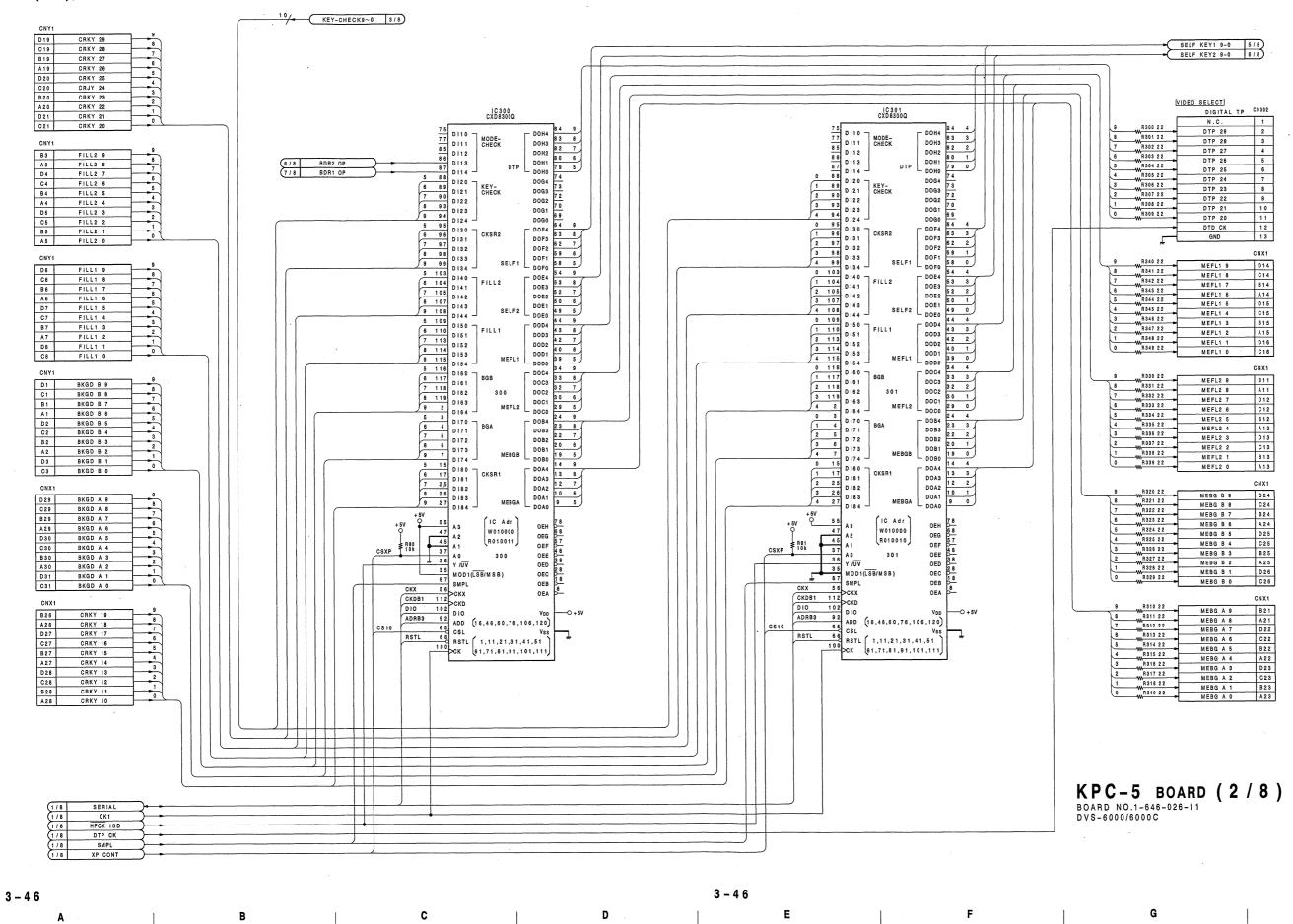
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KPC-5(1/8); KEY PROCESSOR BOARD

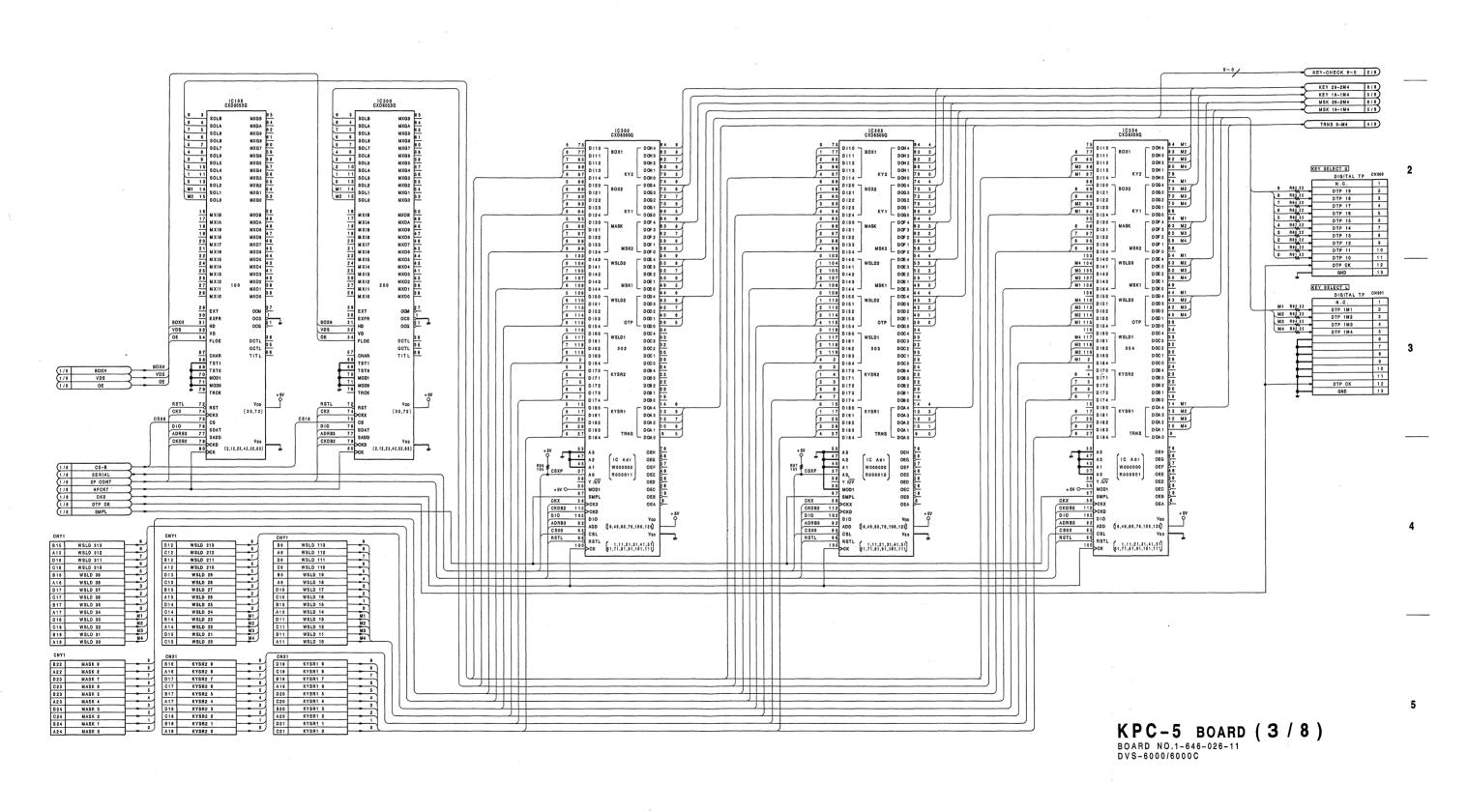


KPC-5(2/8); KEY PROCESSOR BOARD

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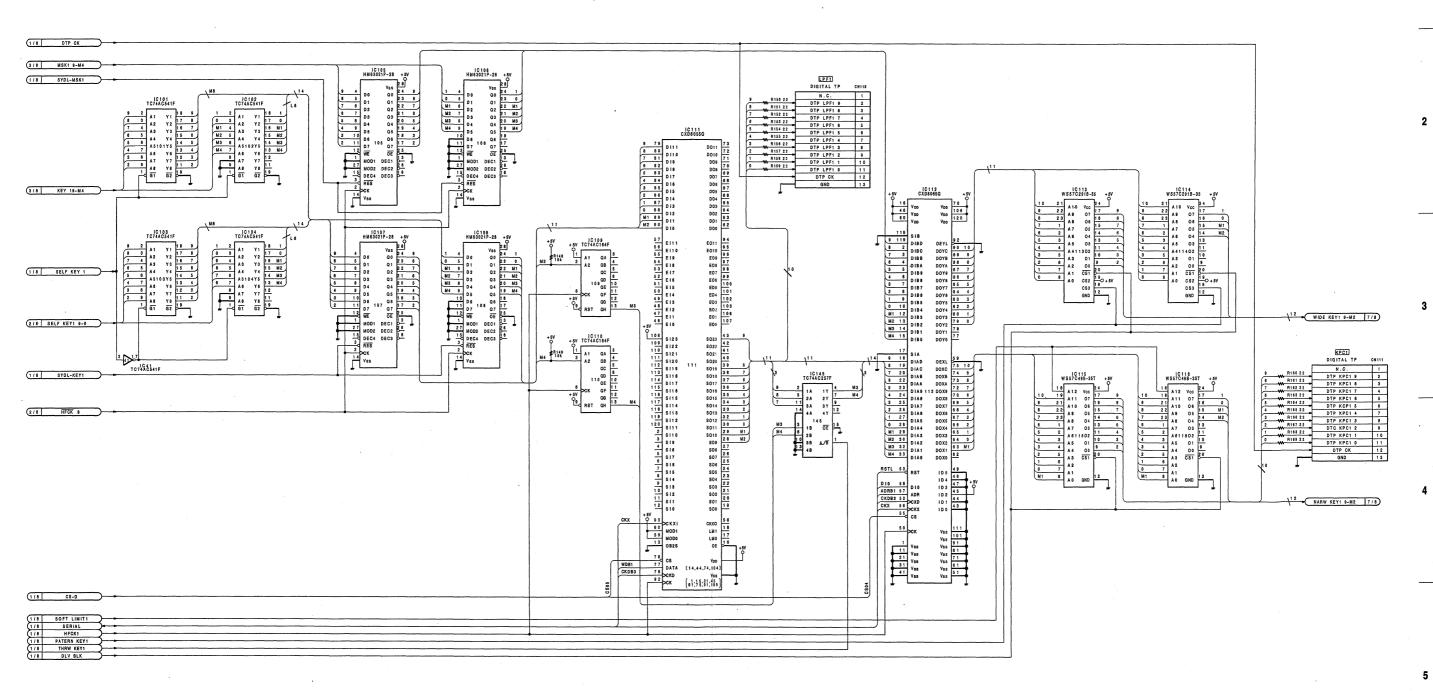
KPC-5(3/8); KEY PROCESSOR BOARD



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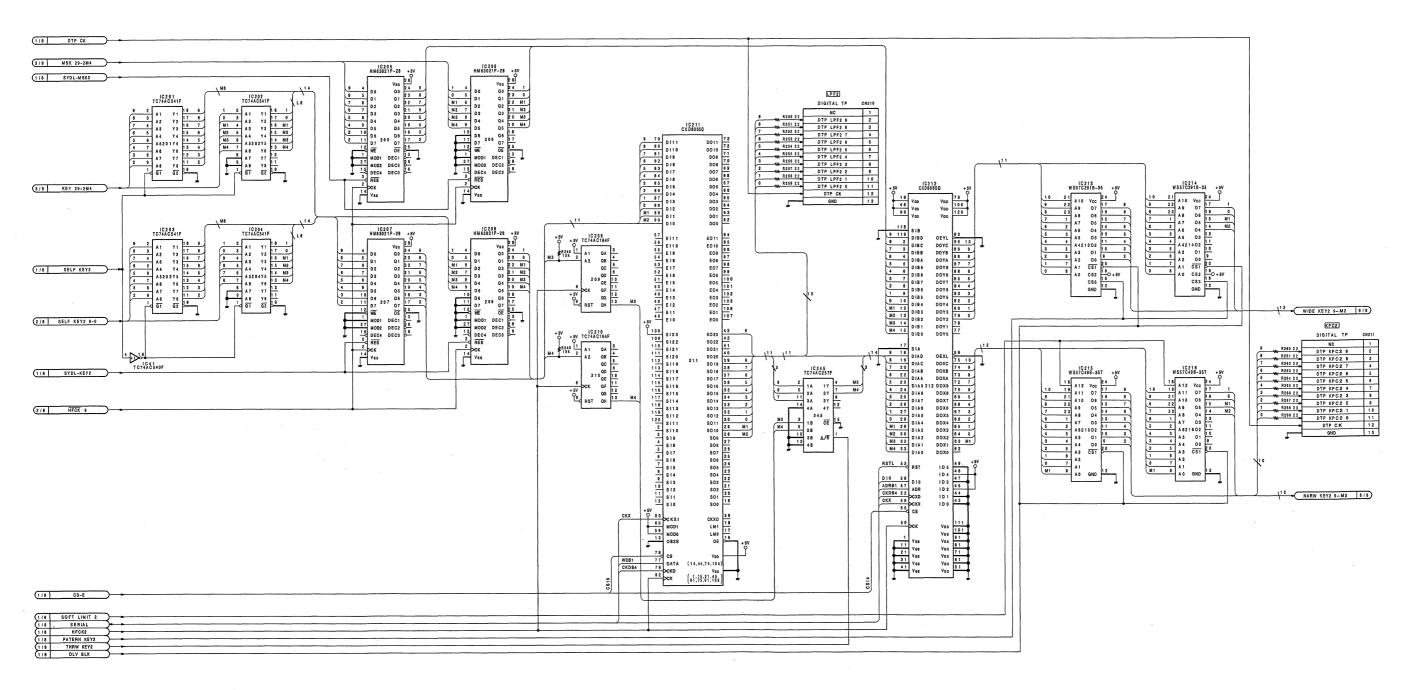
3 - 47

KPC-5(5/8); KEY PROCESSOR BOARD



 $\begin{array}{c} \text{KPC-5} \quad \text{BOARD} \quad (5 \ / \ 8) \\ \text{BOARD} \quad \text{NO.1-646-026-11} \\ \text{DVS-6000/6000C} \\ \end{array}$

KPC-5(6/8); KEY PROCESSOR BOARD



KPC-5 BOARD (6 / 8)
BOARD NO.1-646-026-11
DVS-6000/6000C

DVS-6000/6000C

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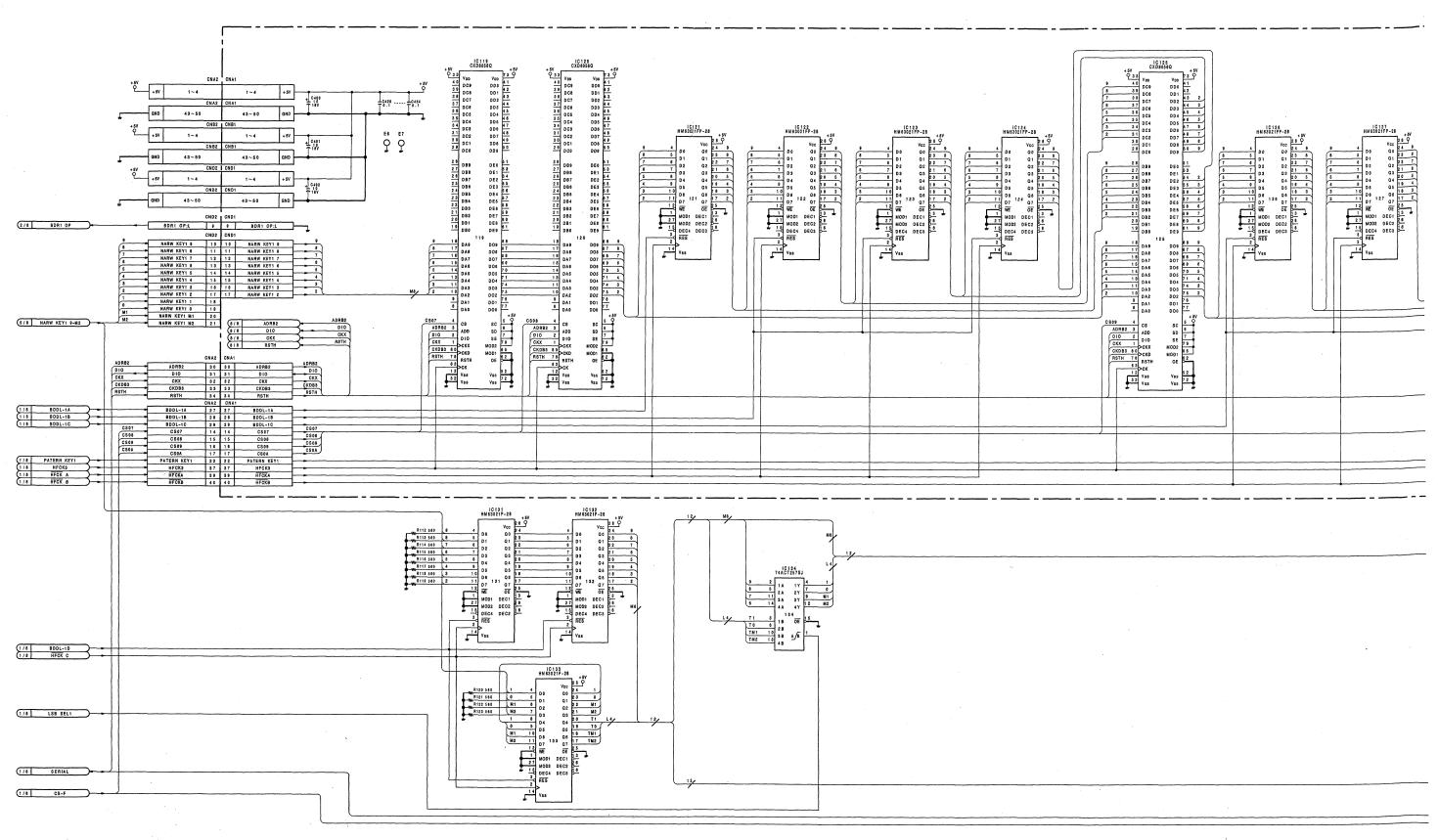
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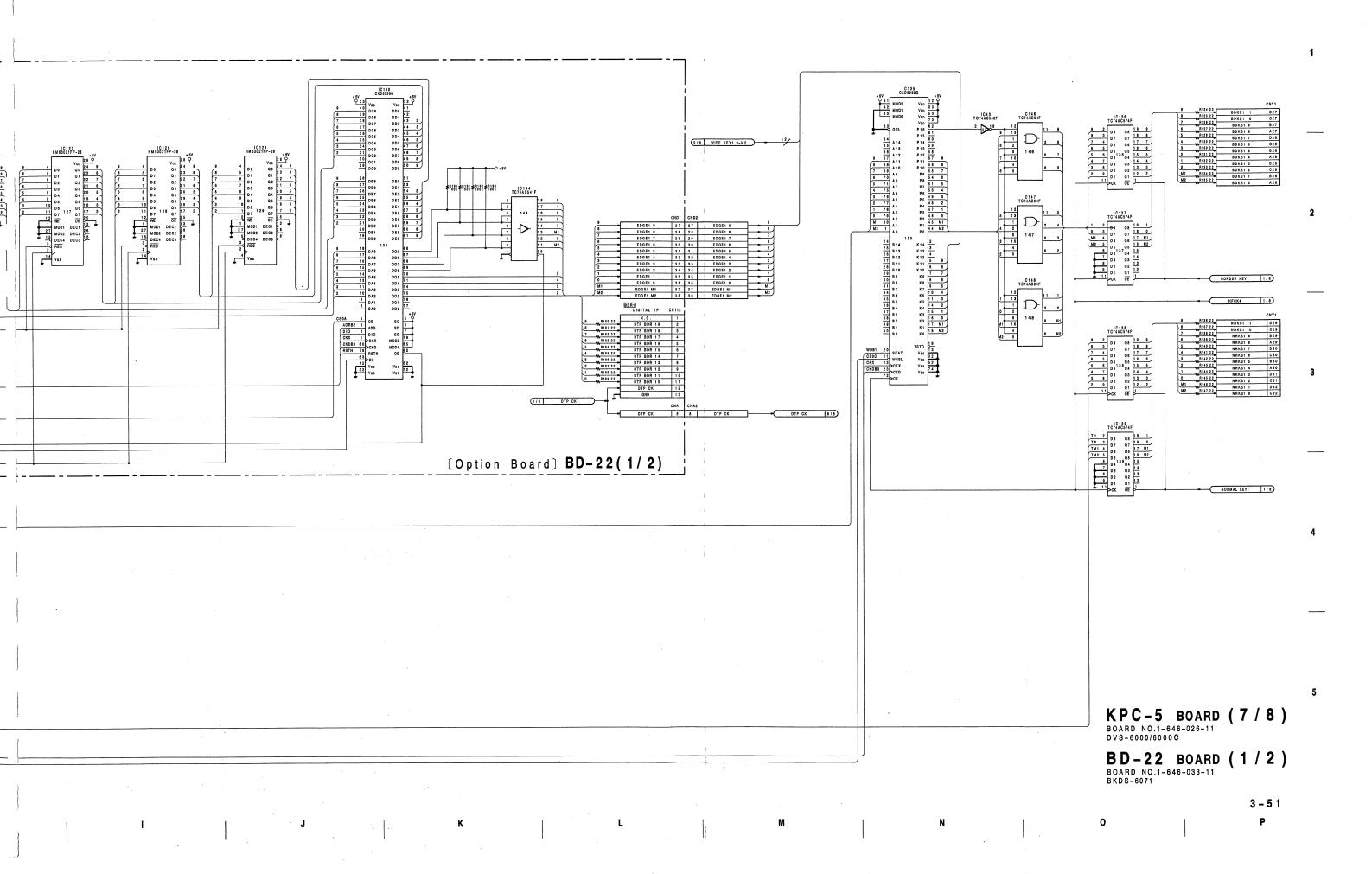
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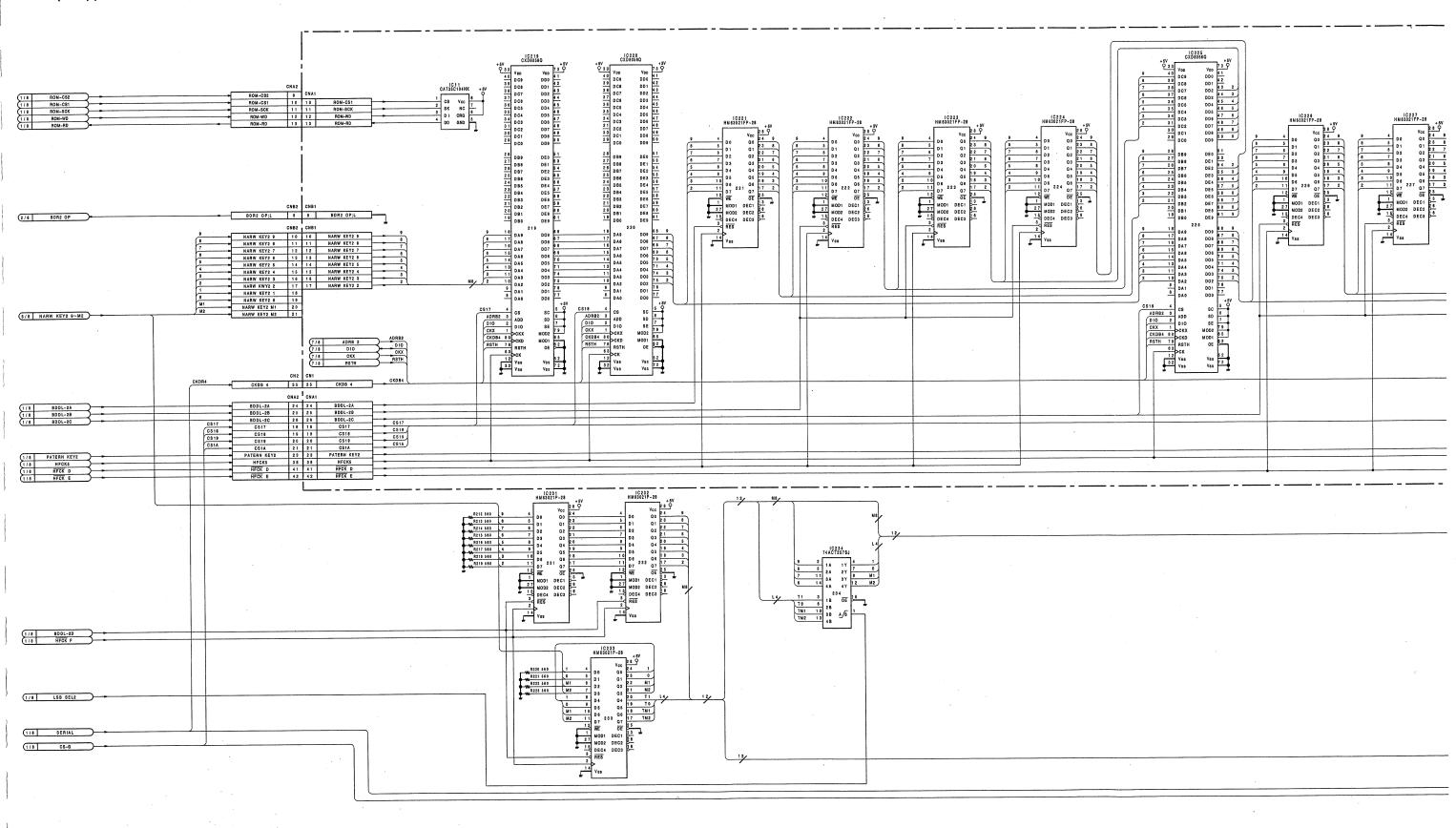
KPC-5(7/8); KEY PROCESSOR BOARD BD-22(1/2)(BKDS-6071); KEY BORDER GENERATOR BOARD

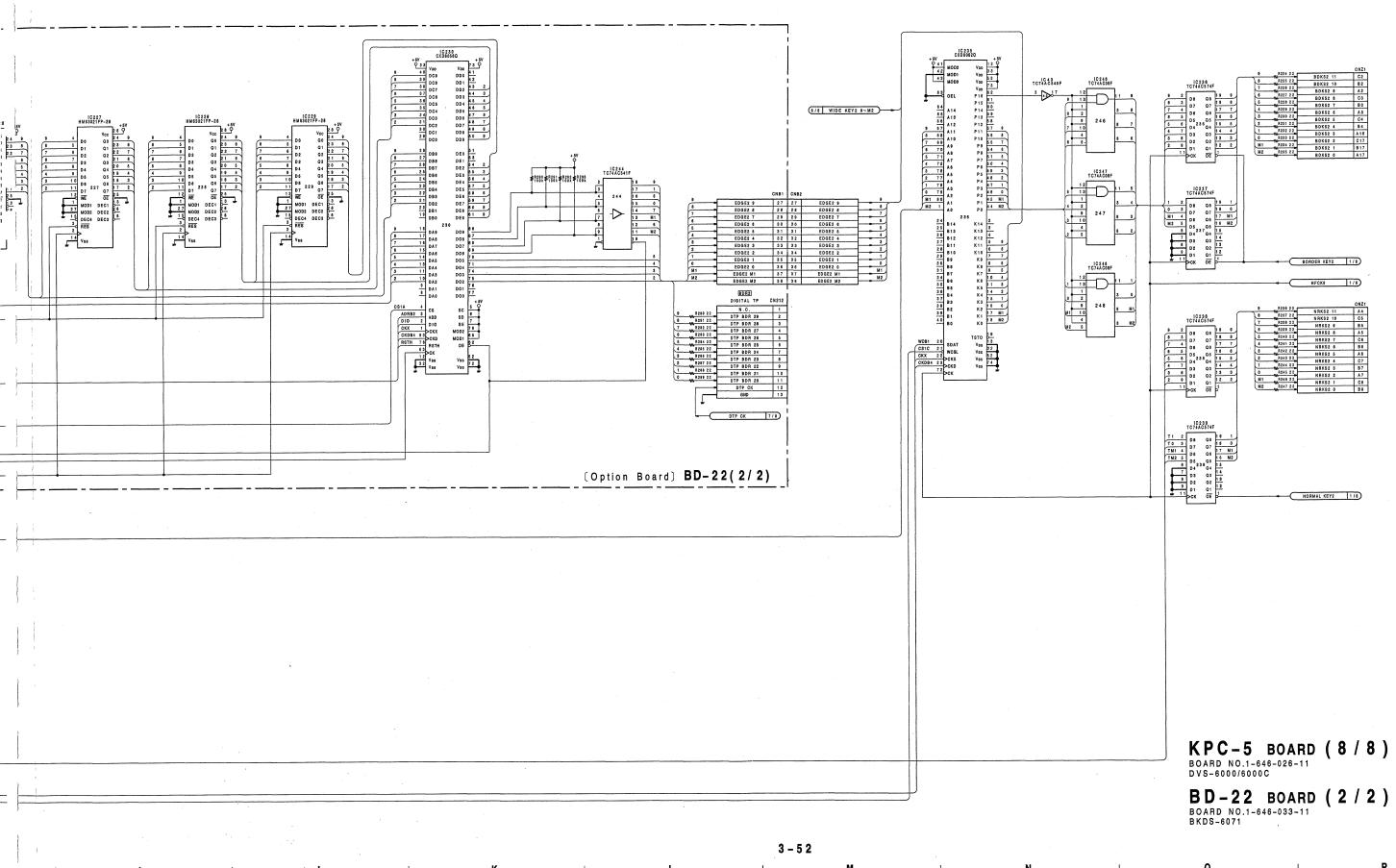




KPC-5(8/8);KEY PROCESSOR BOARD BD-22(2/2)(BKDS-6071);KEY BORDER GENERATOR BOARD

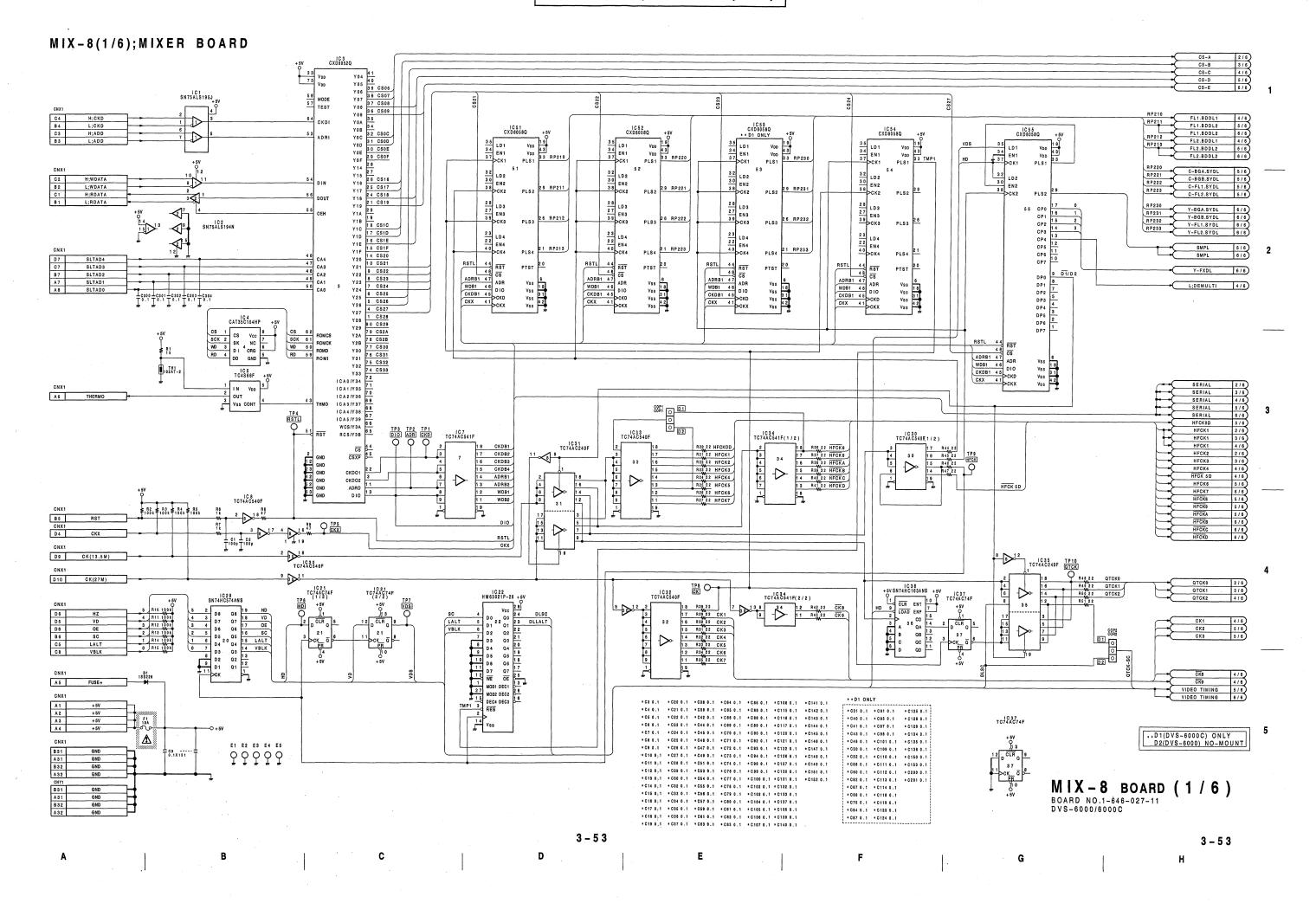
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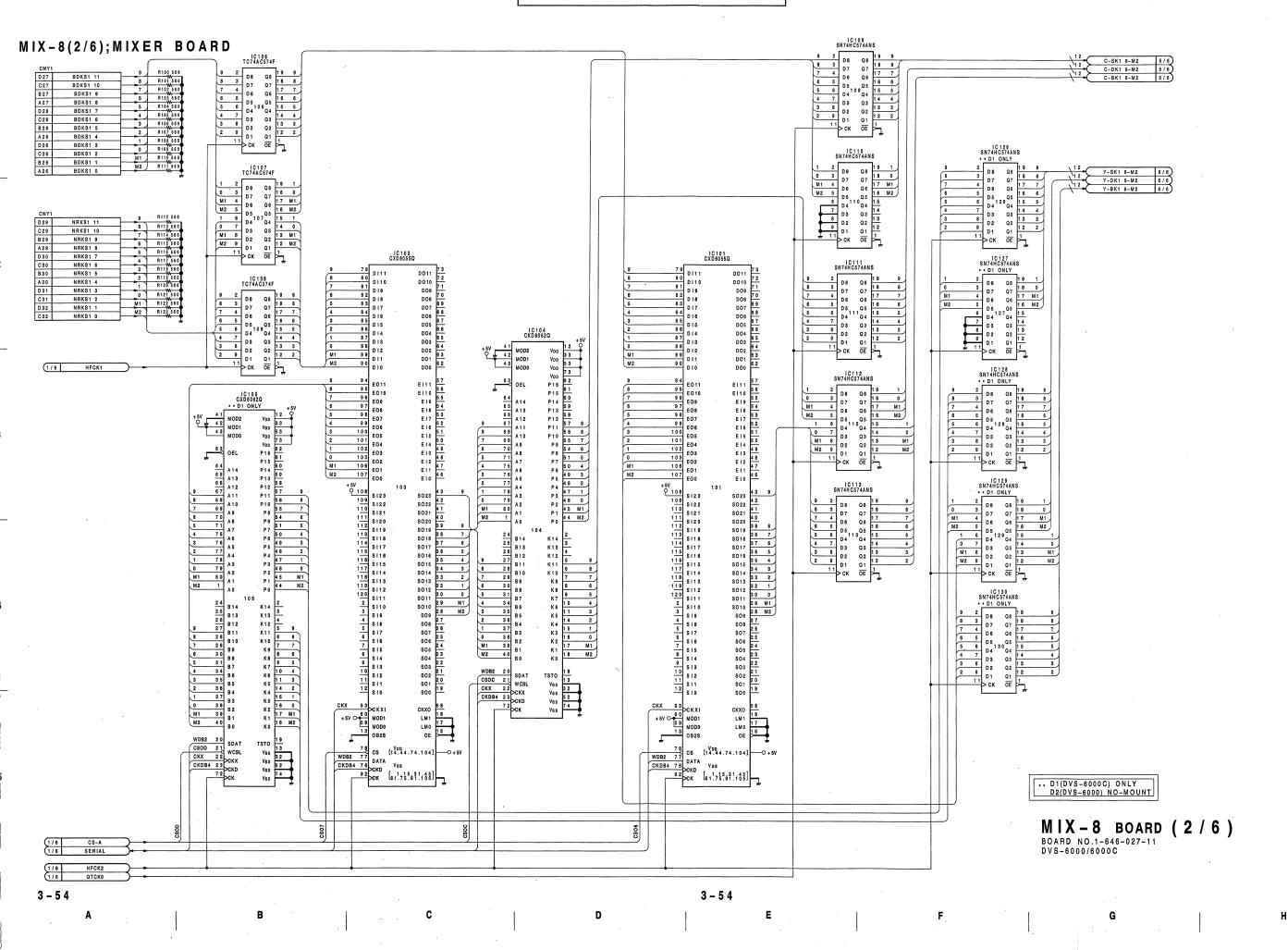


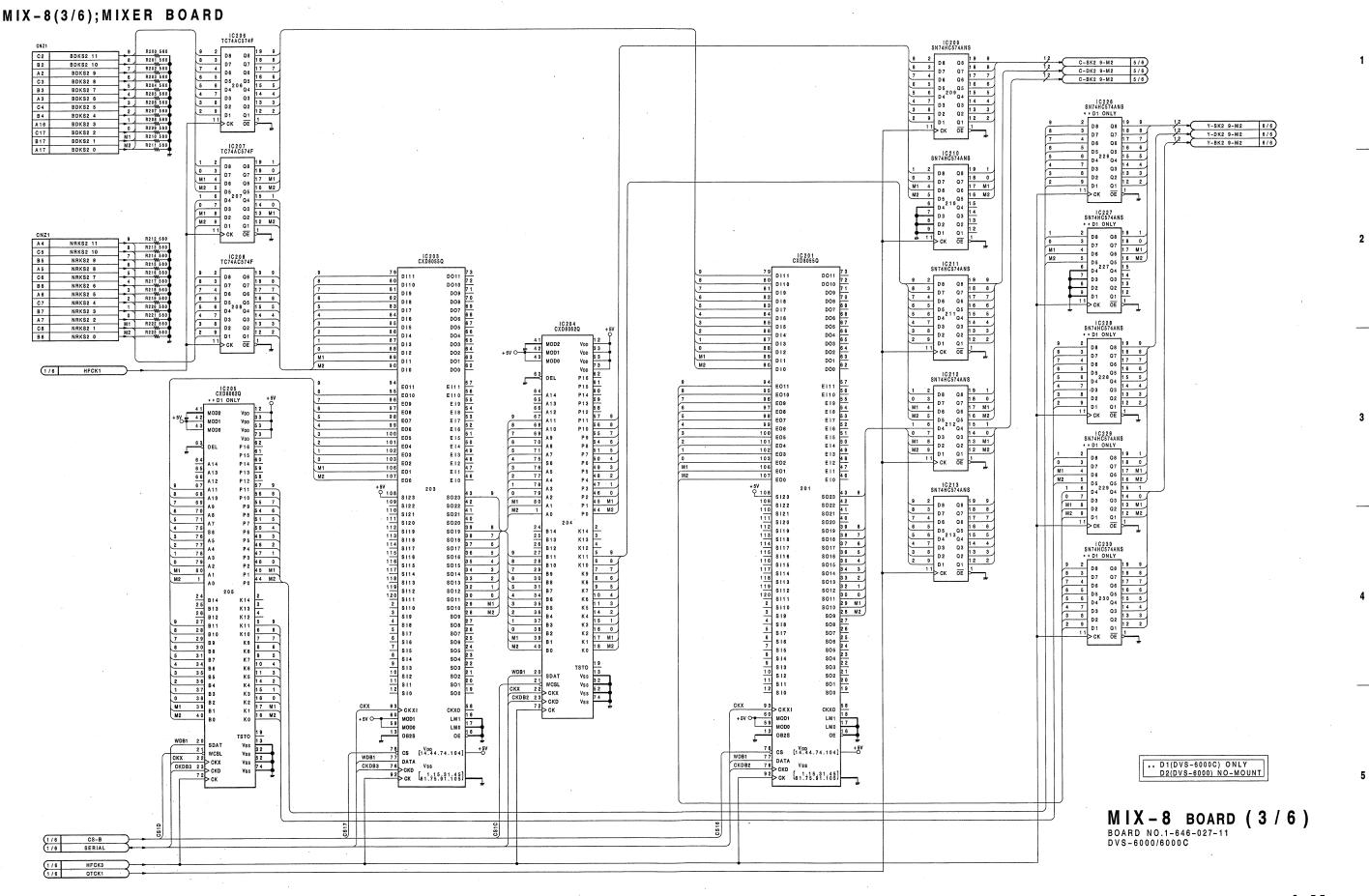


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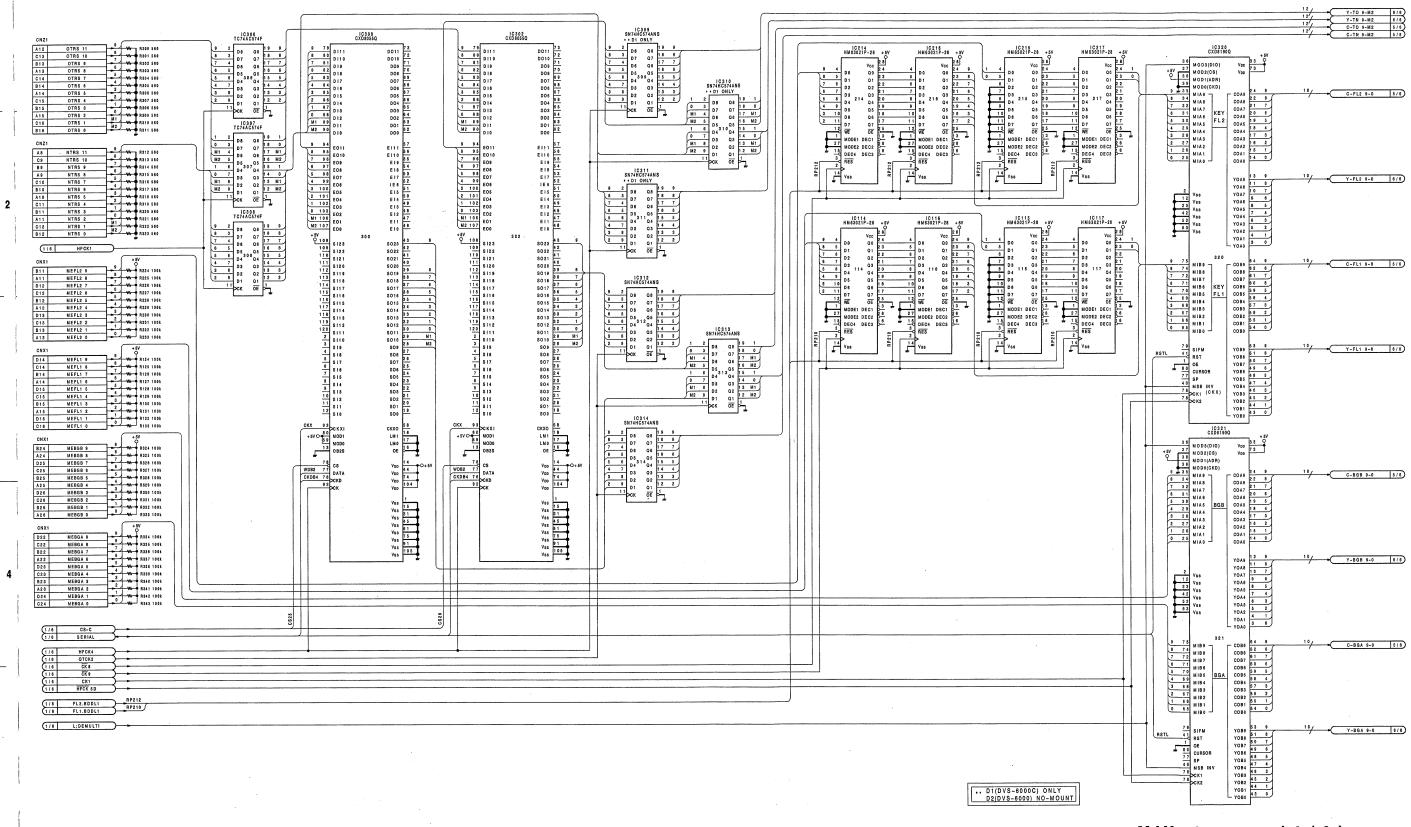
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MIX-8(4/6); MIXER BOARD



MIX - 8 BOARD (4/6)

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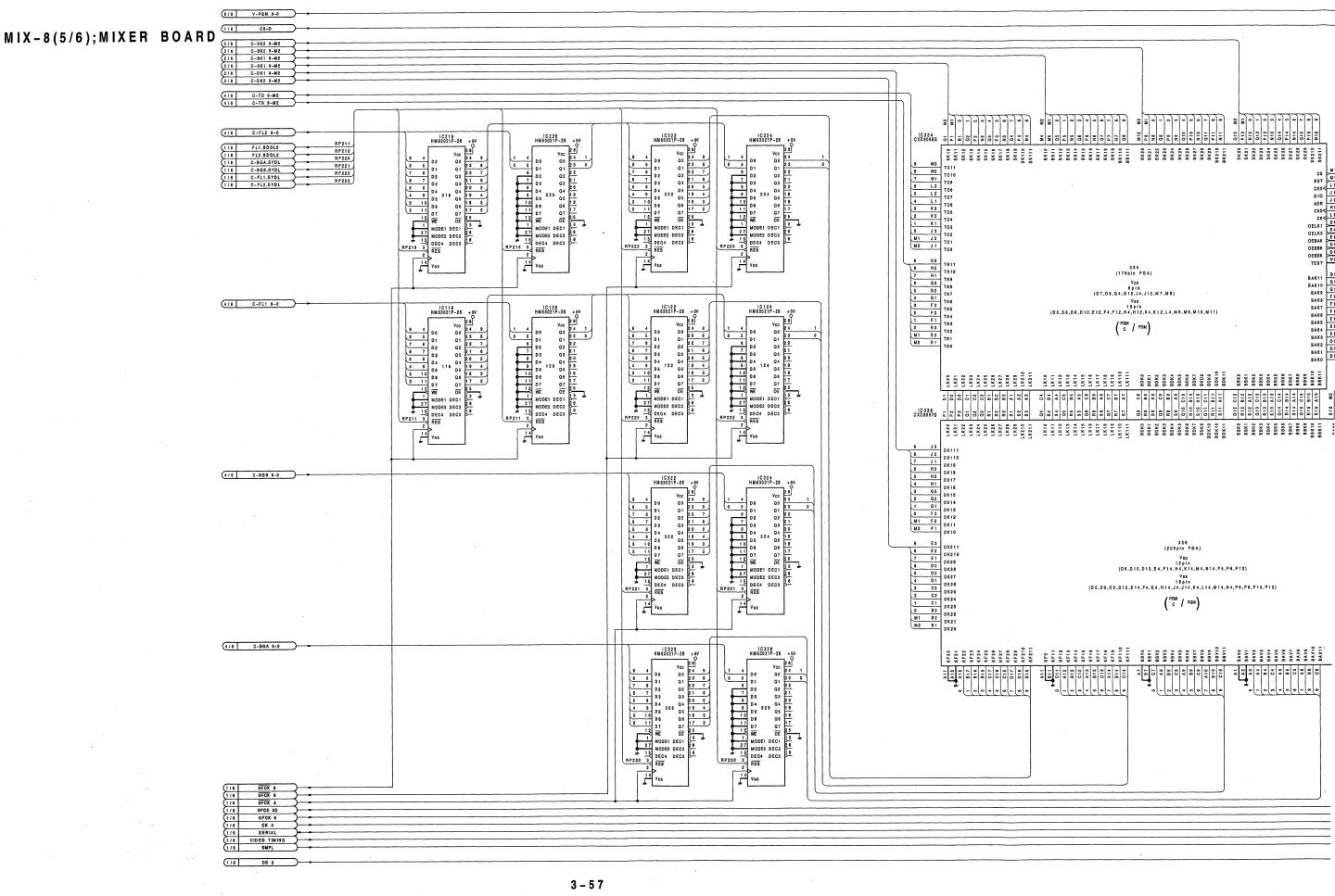
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DVS-6000/6000C

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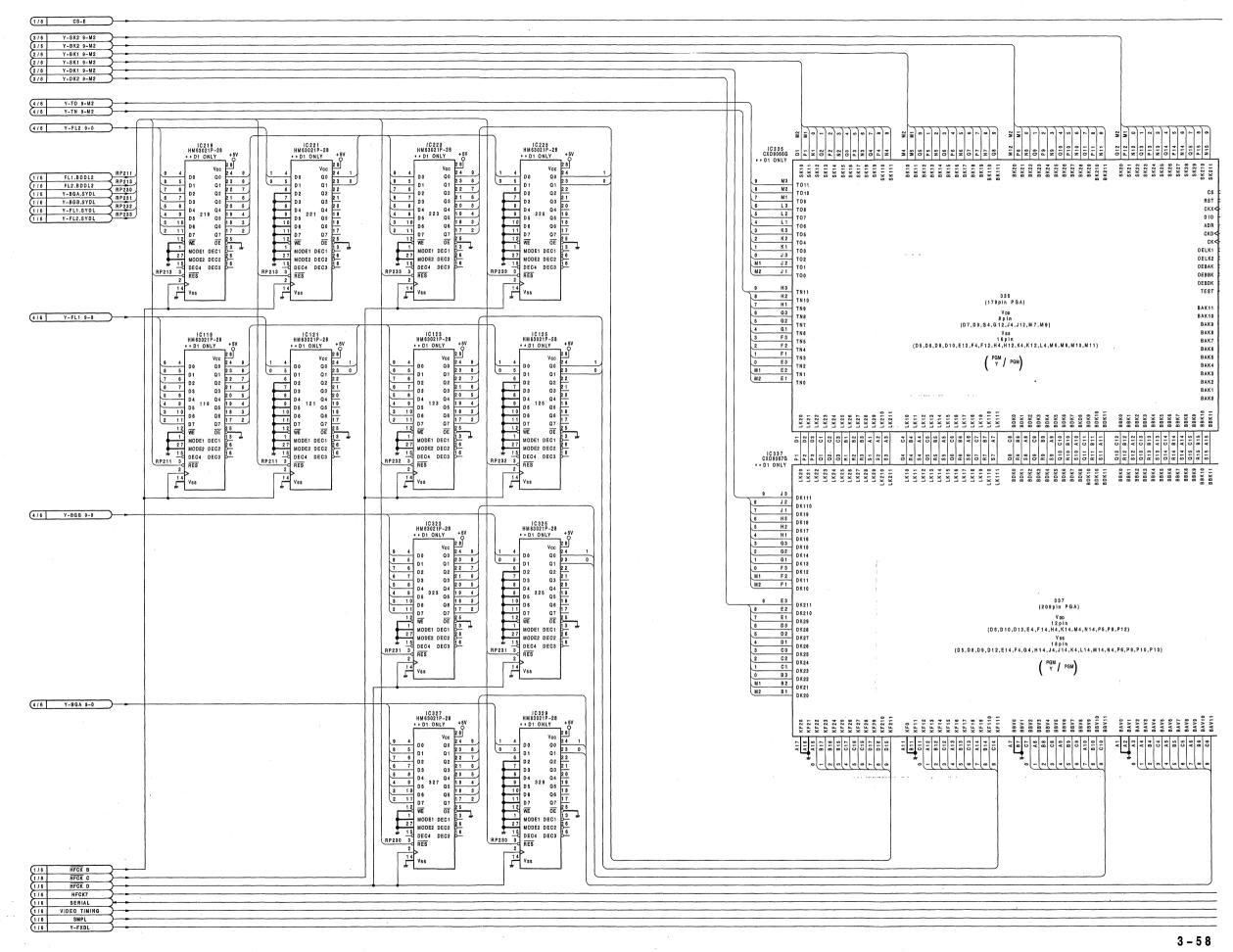
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MIX-8 BOARD (5/6)
BOARD NO.1-646-027-11
DVS-6000/6000C

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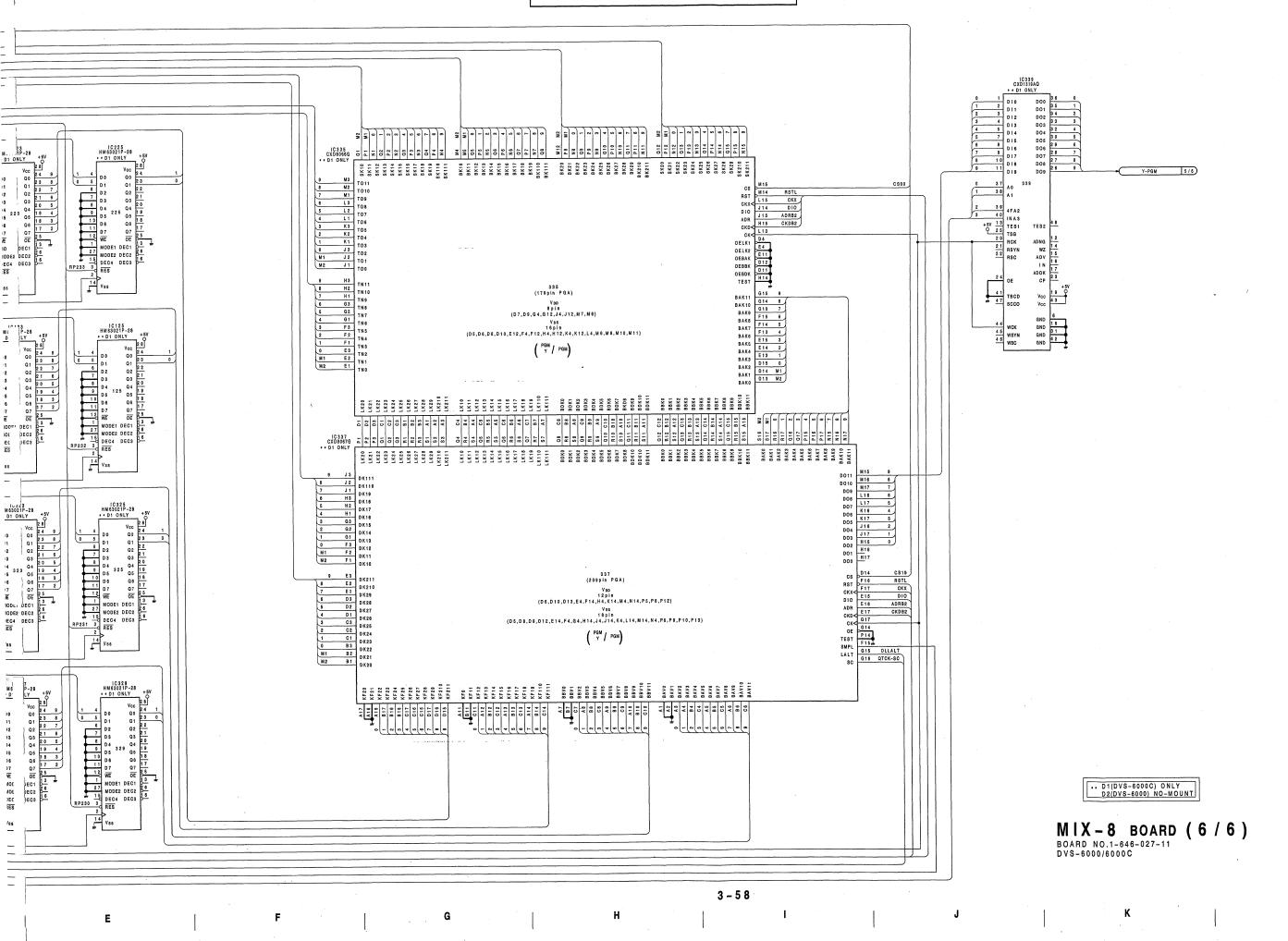
VDD 12 pin (D6,D10,D13,E4,F14,H4,K14,M4,N14,P5,P8,P12) Vss 18pln (D5,D8,D9,D12,E14,F4,G4,H14,J4,J14,K4,L14,M14,N4,P6,P9,P10,P13) (PGM / PGM)

MIX-8(6/6); MIXER BOARD

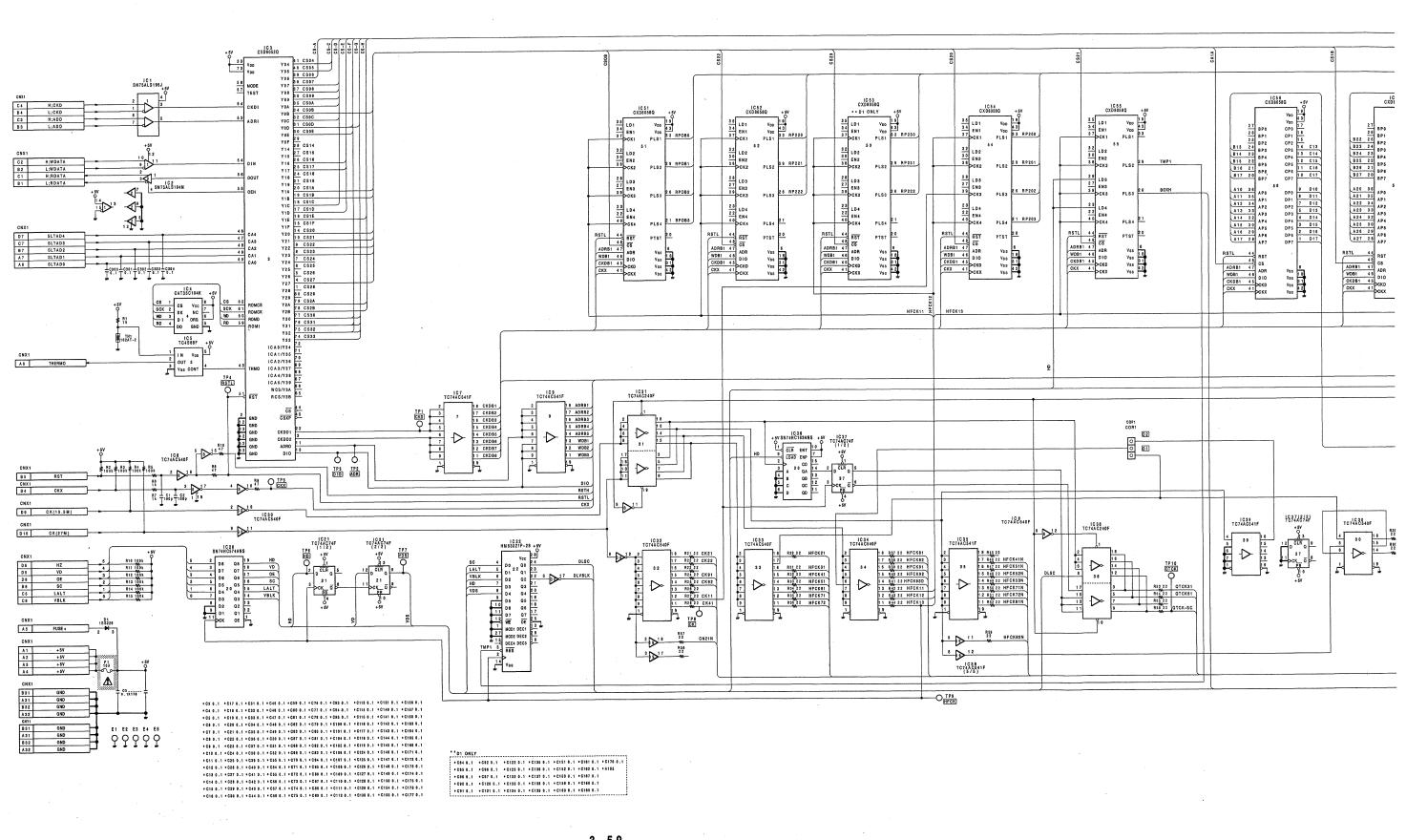


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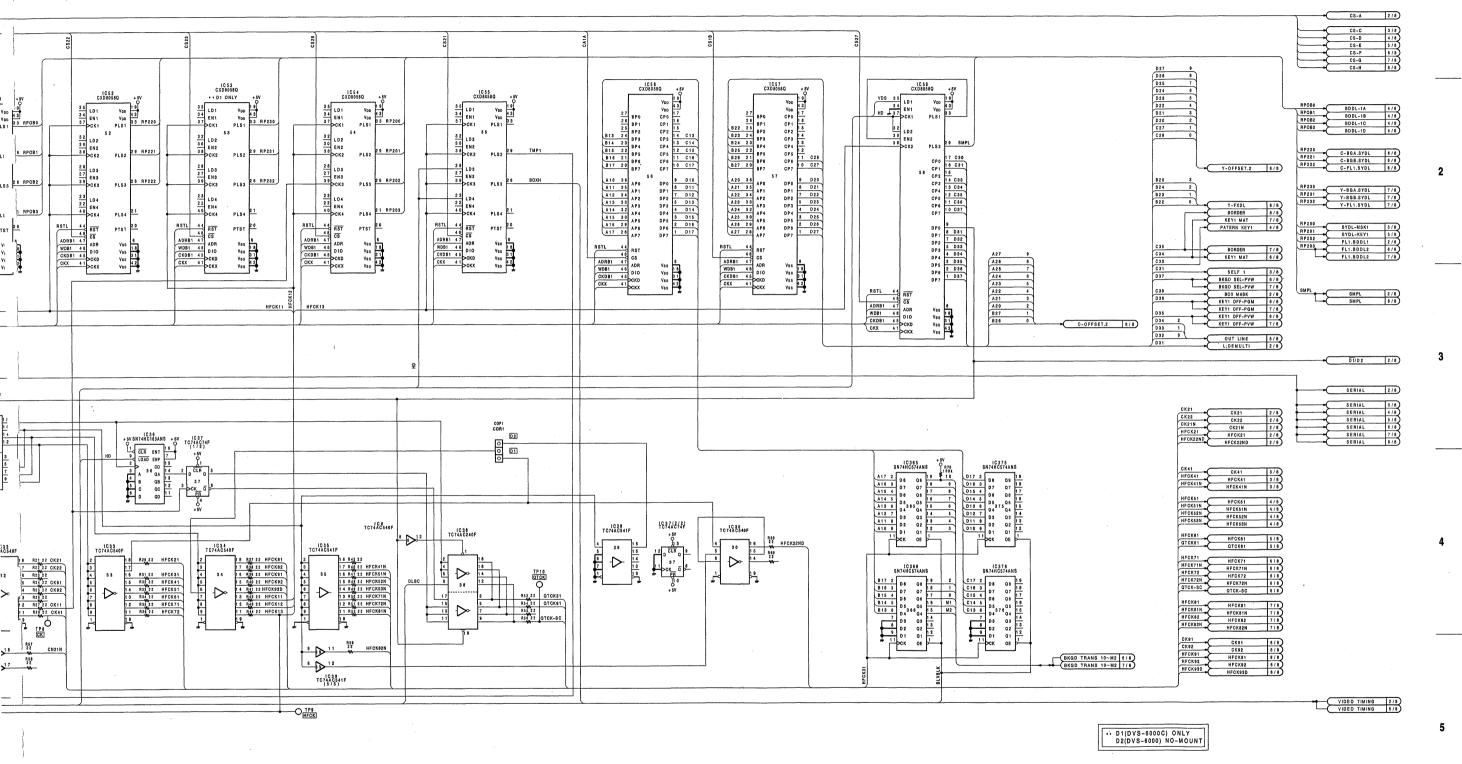
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DSK-9(1/8); DSK BOARD



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DSK-9 BOARD (1 / 8)
BOARD NO.1-646-028-11
DVS-6000/6000C

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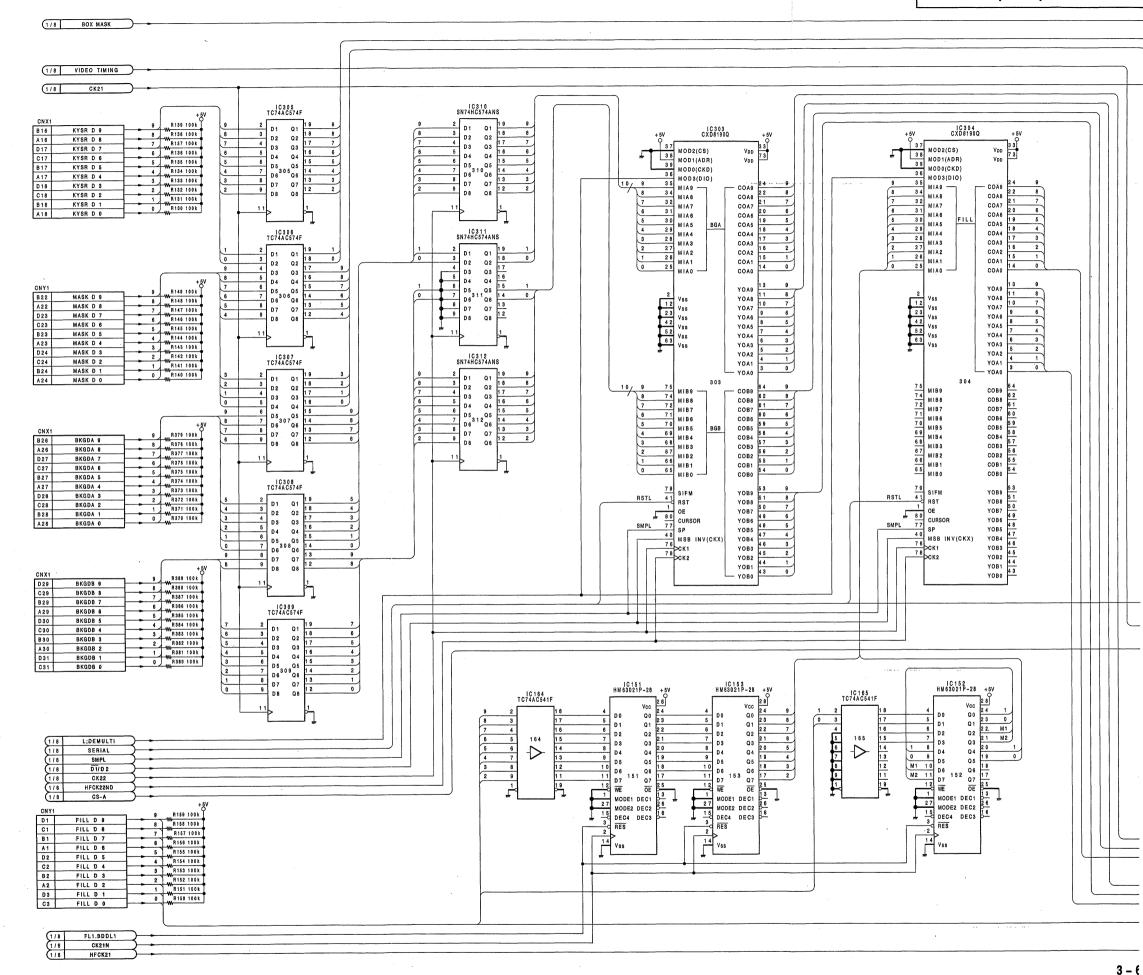
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DSK-9(2/8);DSK BOARD



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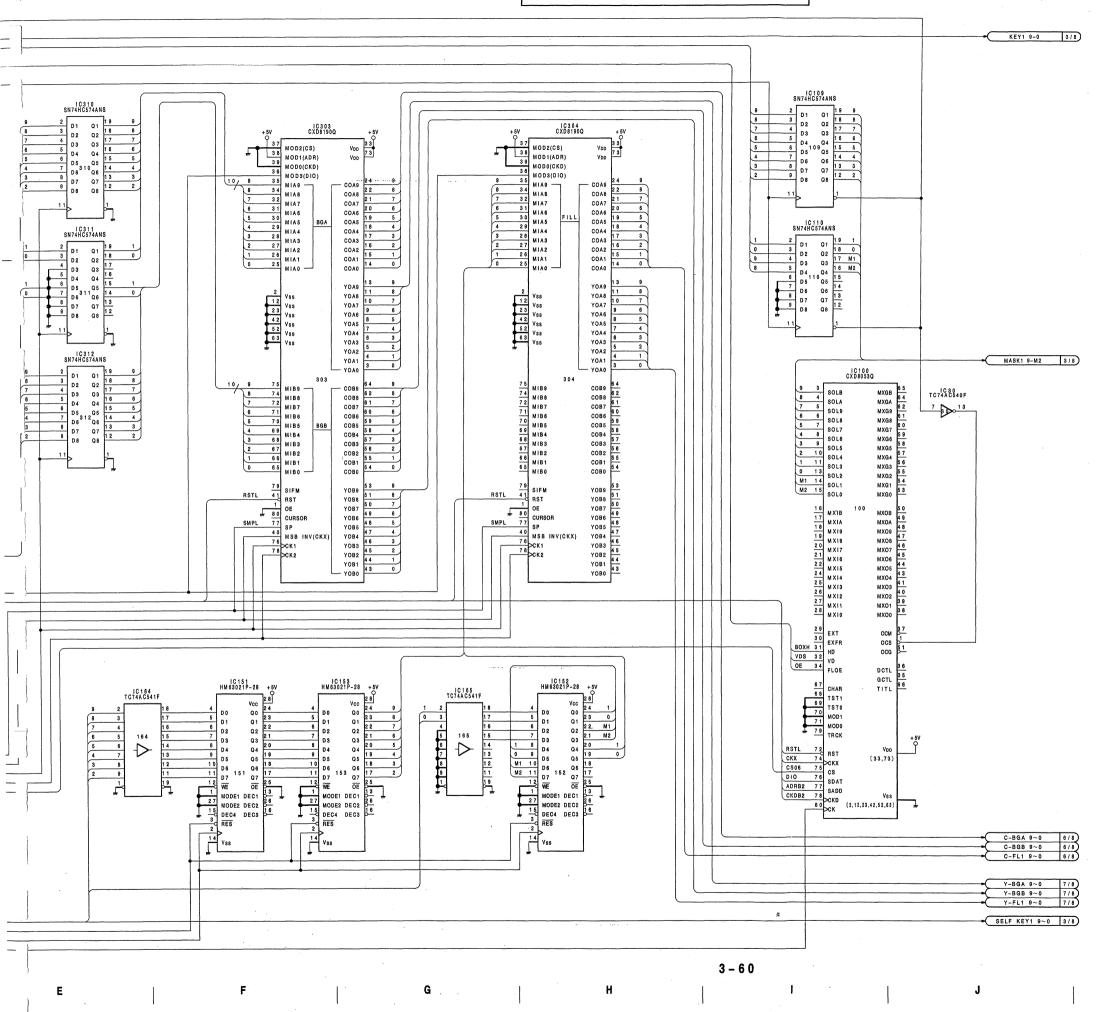
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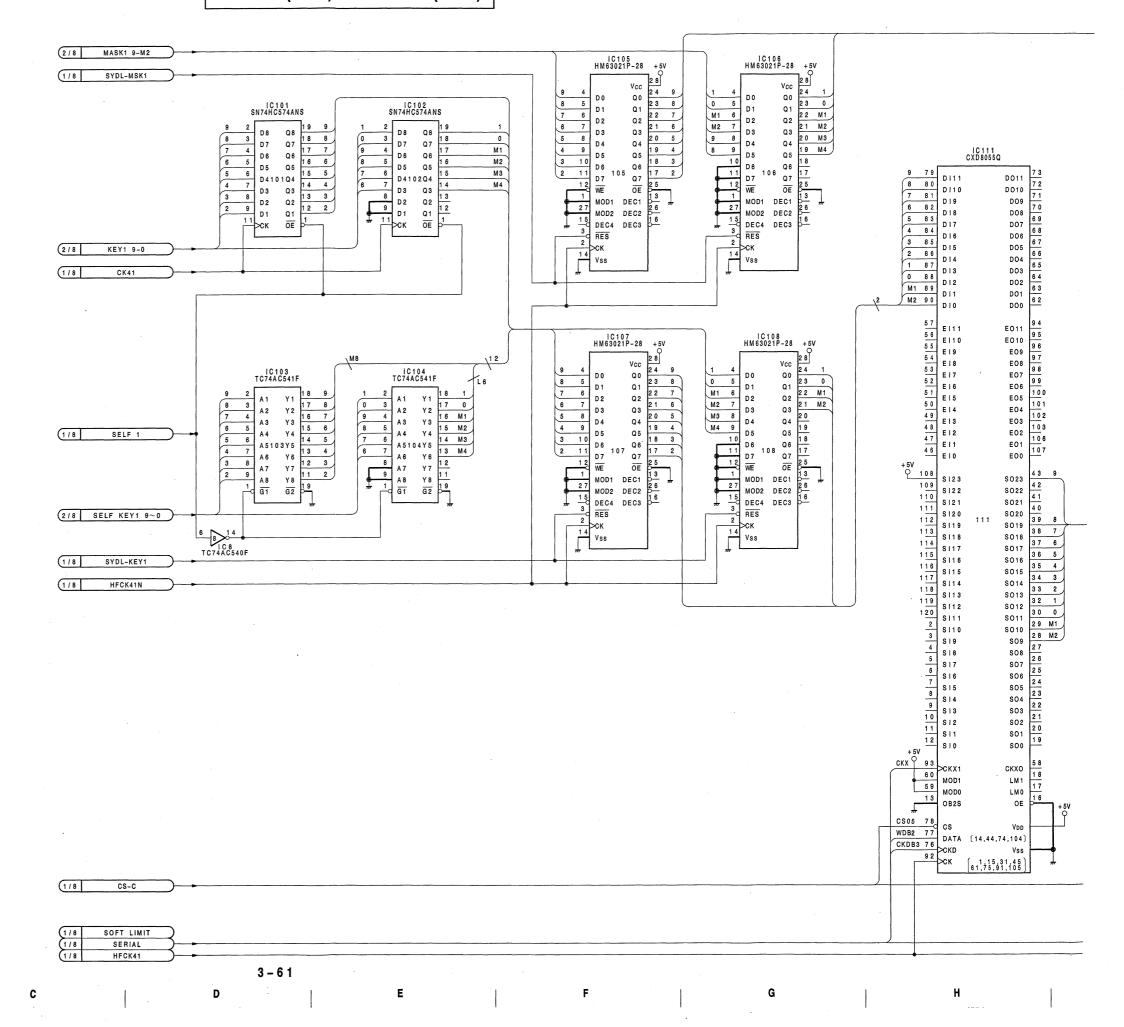
DSK-9 BOARD (2/8)

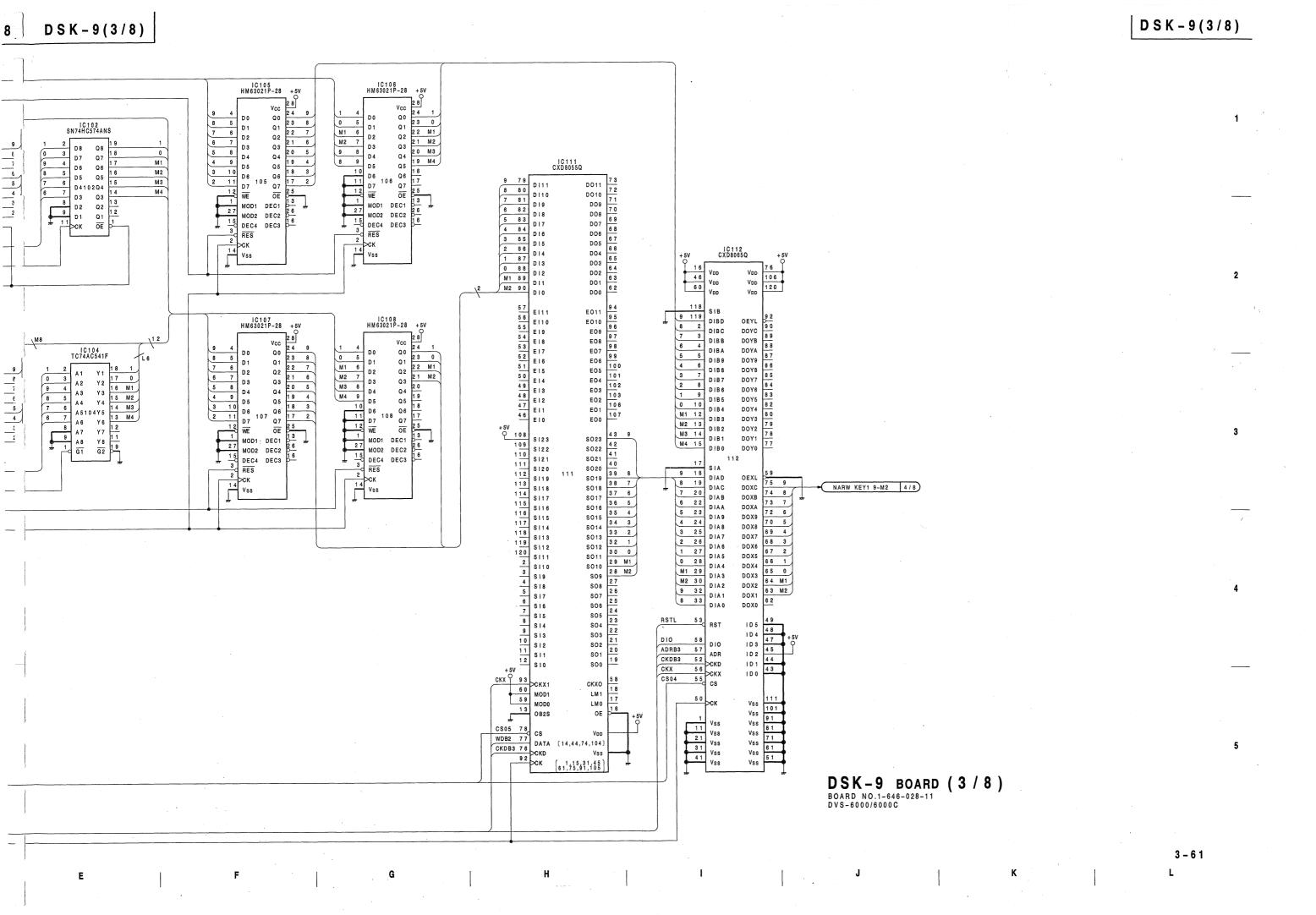
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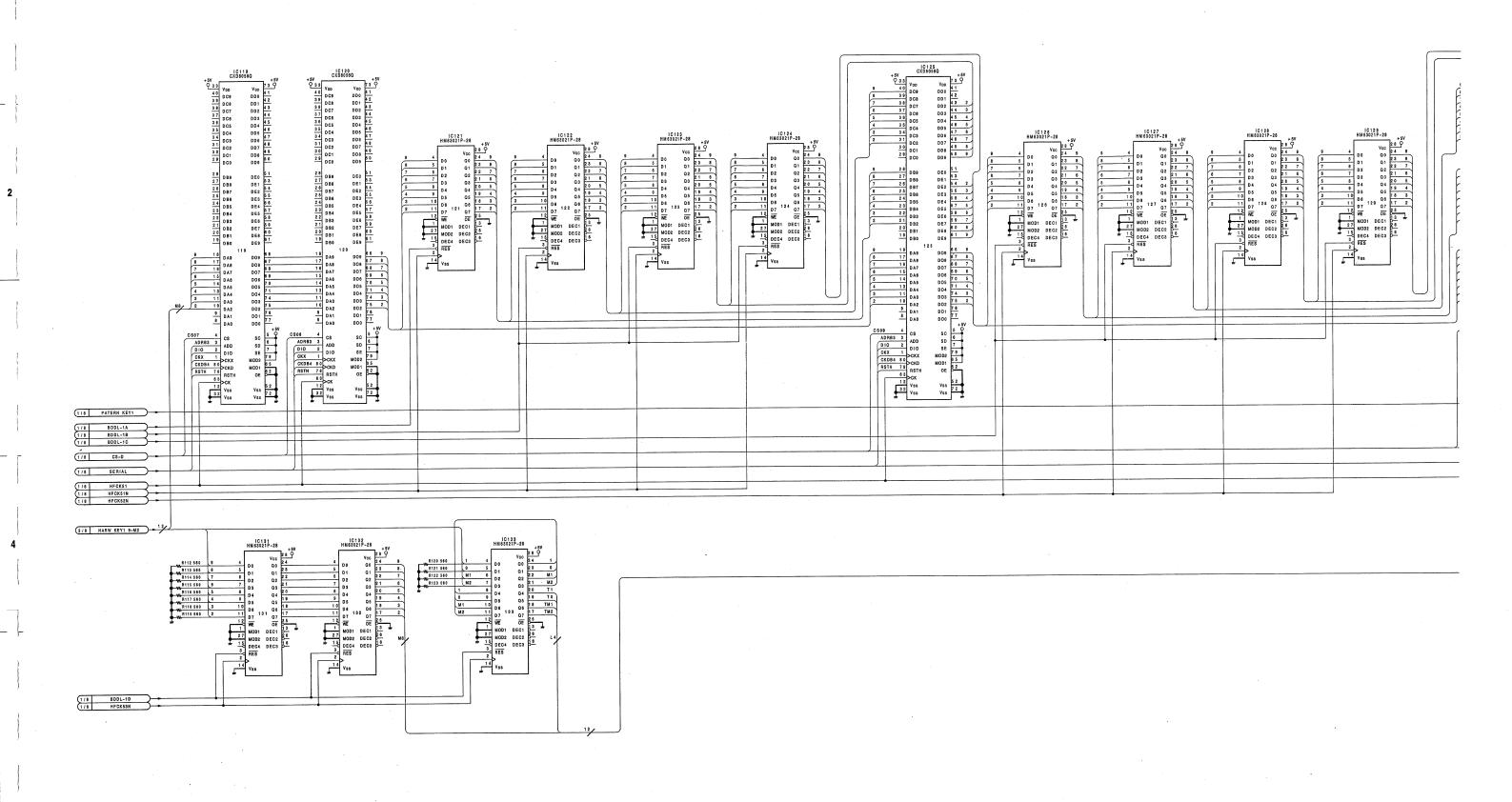
DSK-9(3/8);DSK BOARD





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DSK-9(4/8);DSK BOARD



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В

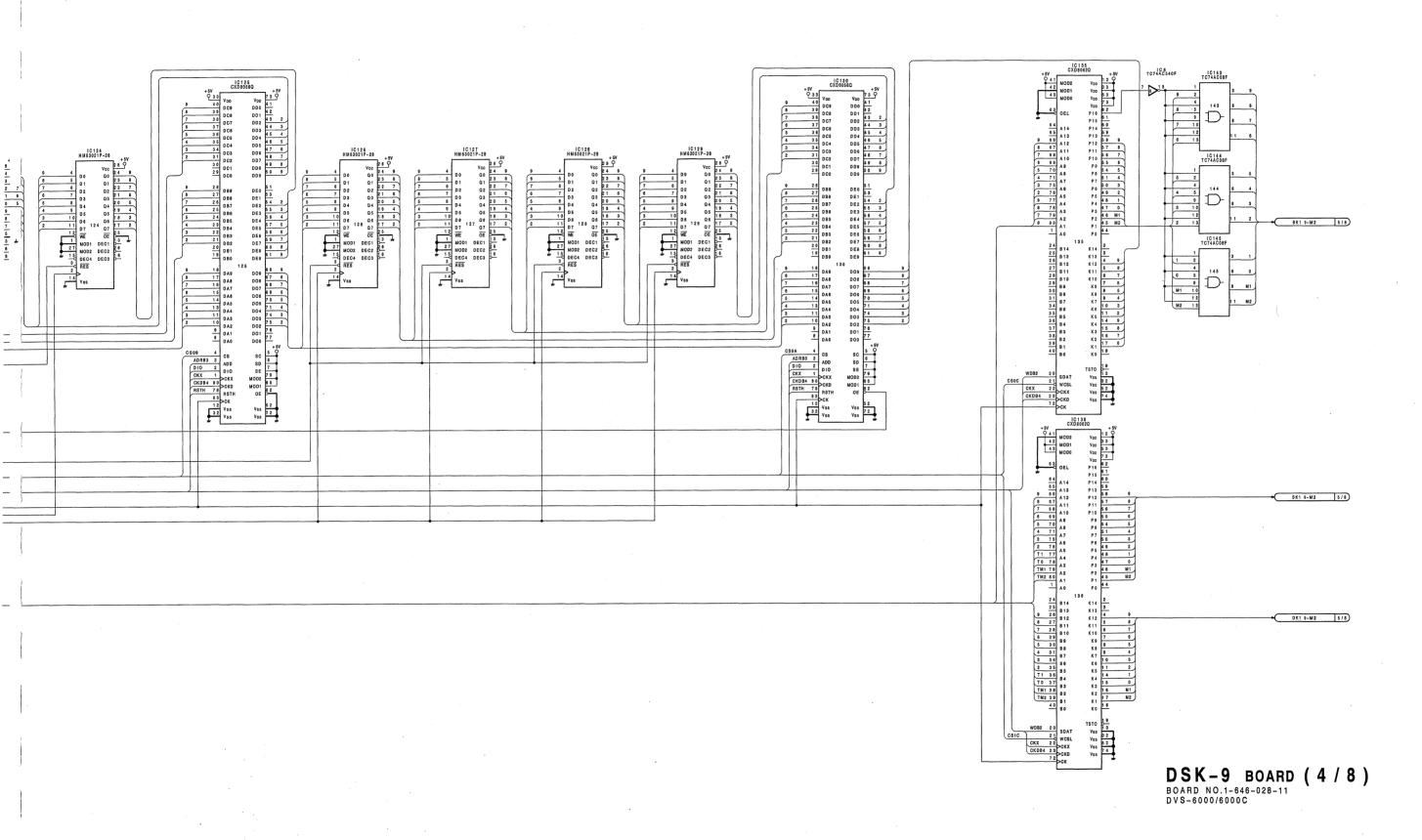
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4/8 OUT LINE IC140 CXD8062Q IC147 CXD8055Q IC148 SN74HC574ANS IC142 CXD8055Q IC139 CXD8062Q DSK-9(5/8); DSK BOARD 1 2 O 3 3 5 3 7 3 DO11 73
DO10 72
DO9 71
DO8 69
DO7 68
DO5 66
DO5 66
DO3 64
DO3 64
DO1 62 D011 73
D010 72
D09 70
D08 69
D07 68
D05 66
D05 66
D04 65
D04 65
D02 63
D01 62 Q8 D8 MOD2 V_{DD} V_{DD} 8 0 8 0 Q7 1 8 1 7 4 2 8 MOD1 VDD DO10 D7 MOD1 D I 1 0 DO10 4 3 81 B2 D18 8 1 4 D6 Q6 MOD0 MOD0 D I 9 V_{DD} v_{DD} 8 2 D 1 8 8 3 D 1 7 8 5 D 1 5 8 6 D 1 4 B 7 B 8 8 D5 Q5 D4 Q4 8 82 D18
5 83 D17
4 84 D16
3 85 D16
2 86 D14
1 87 D13
0 88 D12
M1 89 D11
M2 90 D11 v_{DD} VDD 62 P16 62 P15 60 P14 59 P13 58 P12 57 P11 56 Vpp VDD 62 P16 61 P15 60 P14 59 P13 58 P12 57 0EL 0EL D3 Q3 B D3 Q3 13 D2 Q2 D1 Q1 12 CK OE 7,77 6 4 6 5 6 6 6 7 6 4 6 5 6 6 6 7 A 1 4 A 13 A 13 8 8 DI2 A 12 A 12 8 9 D I 1 A 1 1 P11 A 11 6.8 6 8 90 DIO A 1 0 P10 A 10 P 1 0 69 A9 M2 90 D10 M2 6 9 7 0 IC149 SN74HC574ANS P 9 P 9 D00 70 A8 2 D8 Q8 P 8 P 8 7 1 7 1 E | 1 1 | 5 7 | E | 1 0 | 5 6 | E | 9 | 5 4 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | E | 1 0 | Α7 P 7 E011 E011 0 3 D8 Q8 19 19 17 Q7 17 17 D6 Q6 Q6 D5 Q5 D4 149 Q4 14 8 95 7 96 6 97 E09 E08 9 5 7 5 7 5 A 6 P 6 A 6 P 6 E010 76 A5 77 A4 78 A3 79 A2 9 6 EO9 M1 7 6 P 5 P 5 97 E08 9 7 EO8 P 4 4 8 M2 77 P 4 A 4 7 8 9 8 P 3 Р3 А3 E07 P3 P2 4 5 7 9 9 9 P 2 A 2 E06 E06 100 E05 80 A1 8 0 A 1 M1 100 P 1 101 E04 M2 1 A0 101 P 0 E04 102 E03 4/8 SK1 9-M2 A 0 P 0 102 E03 103 E02 140 139 24 25 26 B13 26 B12 B11 E02 B14 K14 K14 M1 106 E01 25 B13 M1 106 K13 26 B12 M2 107 E00 E01 M2 107 E00 IC150 SN74HC574ANS K12 2 7 +5V O 1 0 8 + 5V 0 1 0 8 K 1 1 B11 142 147 SO23 SO22 SO22 41 SO21 SO20 SO19 39 38 28 D8 . Q8 108 S123 109 S122 111 S120 111 S120 113 S118 114 S117 115 S116 117 S115 S123 K 10 B10 S123 SO23 109 29 K 9 B 9 S | 2 2 SO22 D7 Q7 110 30 D6 Q6 K 8 В8 S | 2 1 8021 111 \$120 3 1 B 7 D5 150 Q5 D4 Q4 K7 \$020 5 6 3 4 112 8019 K 6 B 6 04 D4 0 Q4 D3 Q3 Q3 D2 Q2 D1 Q1 113 7 3 5 K 5 B 5 S118 SO18 SO18 114 S118
115 S116 S115
116 S115
117 S114
119 S112
2 S111
3 S19
4 S10
5 S17
6 S16
7 S15
8 S14
9 S13
10 S12
11 S11 6 3 6 6 8017 B 4 K 4 2 12 5 3 7 5 S016 KЗ В3 S016 3 8 B 2 B 1 3 8 4 4 CK OE SO15 SO15 B 2 K 2 3 2 1 3 8014 В1 SO14 K1 40 B0 | 118 | S114 |
119	S112
120	S111
2	S110
3	S19
4	S18
5	S17
6	S16
7	S15
8	S14
9	S13
10	S12
11	S10
12	S10
CKDB5 23 CKX
72 CKD SO10 8010 WCSL M2 D7 Q7 M2 CKX 22 CKDB5 23 CKD S 0 9 SO9 D6 Q6 SO8 27 26 25 SO6 24 SO5 23 SO4 22 SO3 SO2 21 20 SO1 19 SO8 S08 5 D5 D5 Q5 D4 113 Q4 7 2 CK 807 S06 D3 Q3 \$05 2 3 2 2 2 1 2 0 1 9 D2 Q2 9 D1 Q1 S04 OE OE 803 802 801 IC114 SN74HC574ANS 811 12 810 800 * * D1 ONLY CKXO

LM1

LM0

OE

04) CKXO 58 18 17 LM0 OE 74 +5V _________CKXI +5V 0 60 MOD, 59 MODO 13 OB 2 D8 Q8 +5V 0 6 0 MOD1 MOD0 OB2S D7 Q7 4 D6 Q6 M2 CS 17 78 CS (14.7 DATA VSS CKD \(\frac{1}{1}, \frac{1}{7}, \frac{3}{1}, \frac{4}{5} \) CK \(\frac{1}{6}, \frac{1}{7}, \frac{1}{5}, \frac{3}{1}, \frac{4}{5} \) CK \(\frac{1}{6}, \frac{1}{7}, \frac{5}{5}, \frac{9}{1}, \frac{1}{0}, \frac{5}{5} \) OB2S CS16 78 CS [14.44.74.104] CKDB5 76

OCKD 6 1.75.91.45

OCKD 6 1.75.91.45 CK OE IC115 SN74HC574ANS 4/8 DK1 9-M2 * * D1 ONLY 2 D8 Q8 CS-E 3 D8 Q8 D7 Q7 D6 Q6 SERIAL 5 D5 Q5 D4 115 Q4 HFCK61 7 D4 Q4 D3 Q3 D2 Q2 D1 Q1 CK OE QTCK61 **D1(DVS-6000C) ONLY D2(DVS-6000) NO-MOUNT

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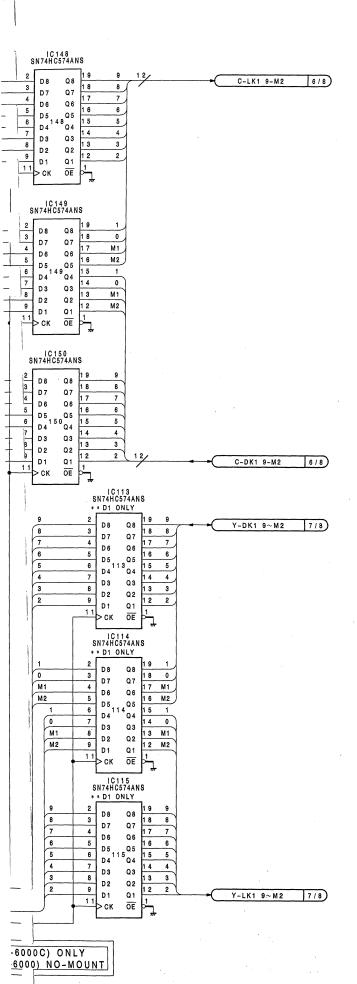
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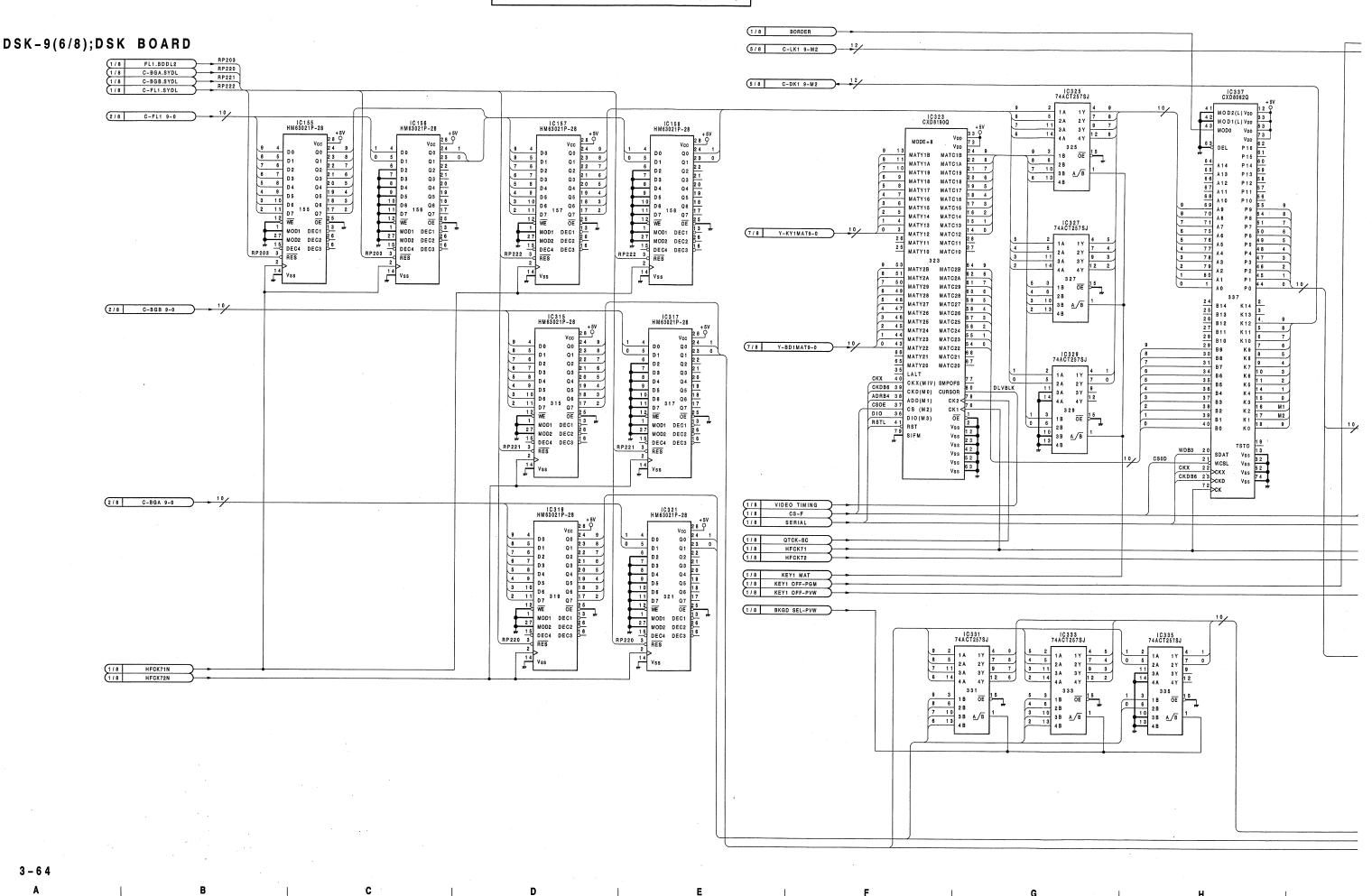
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DSK-9 BOARD (5 / 8)
BOARD NO.1-646-028-11
DVS-6000/6000C

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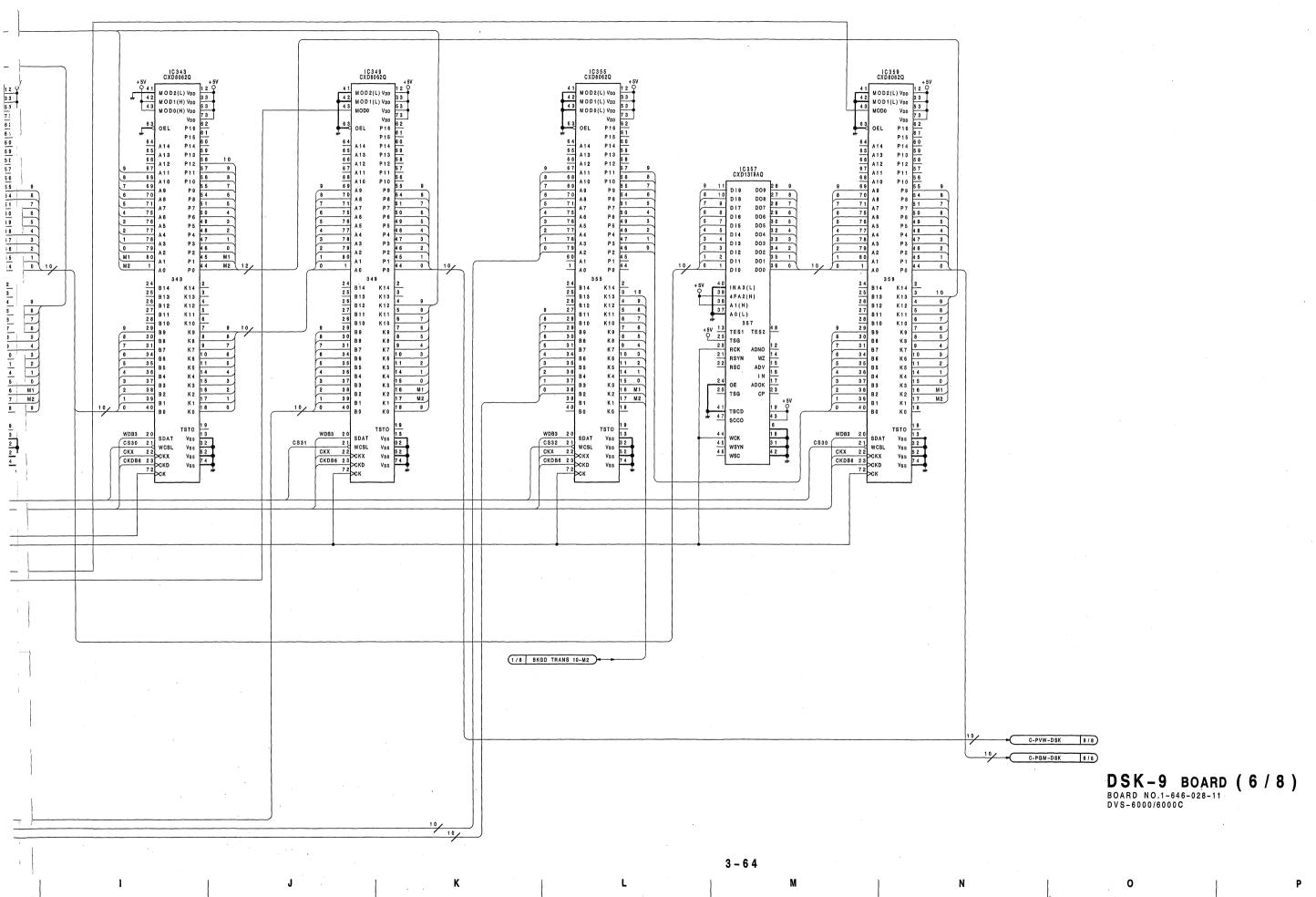


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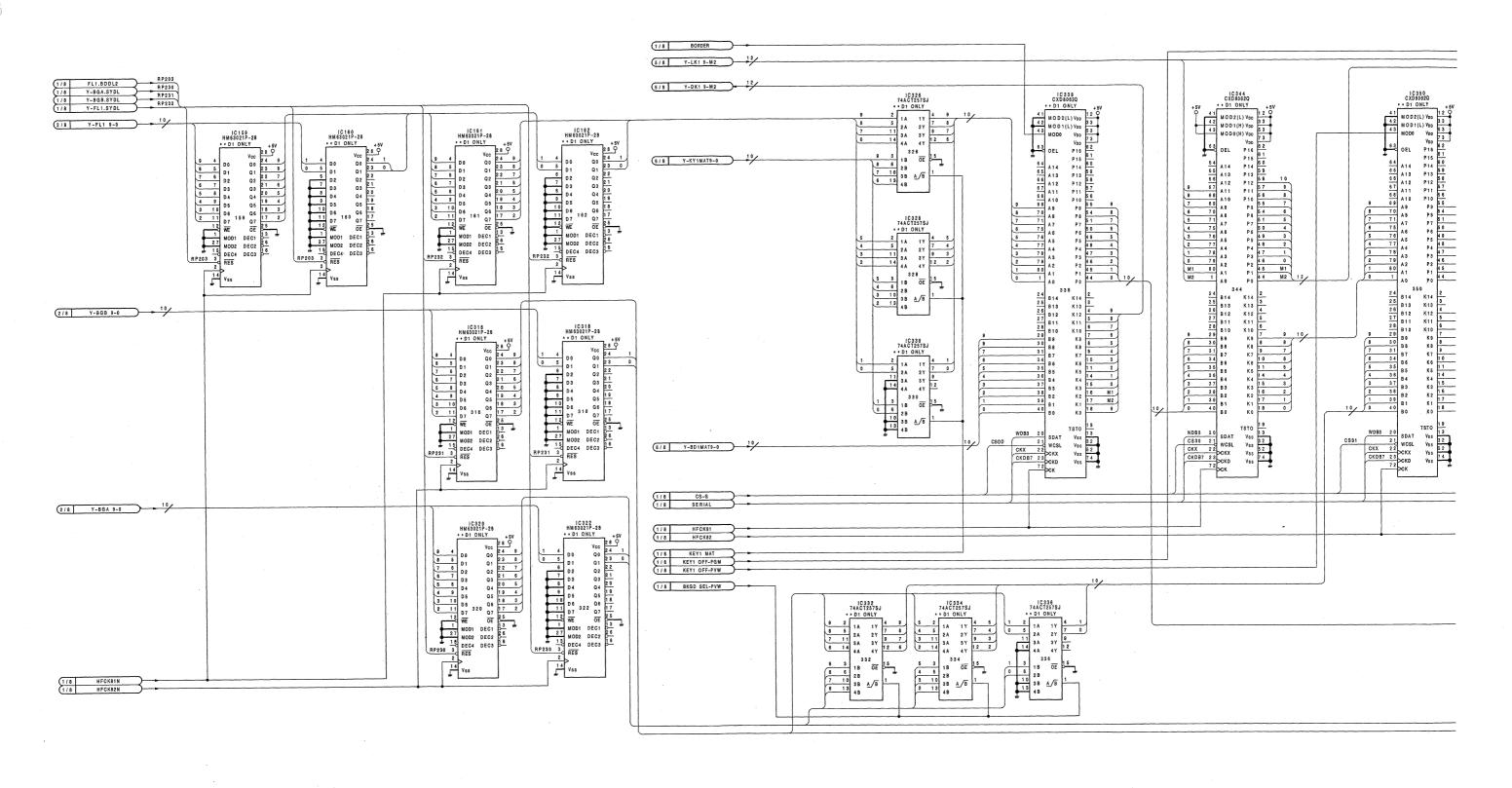
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DSK-9(7/8);DSK BOARD



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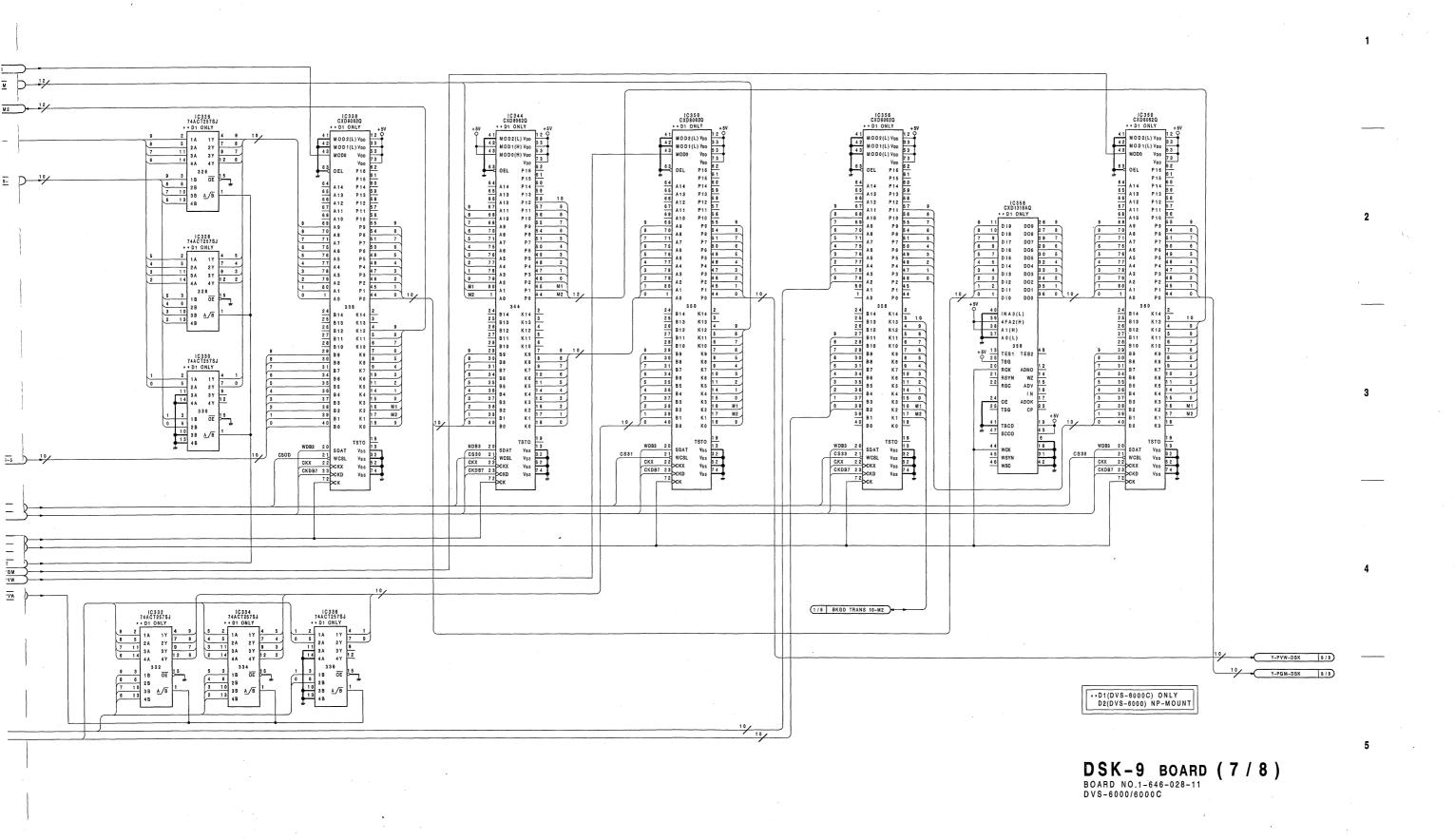
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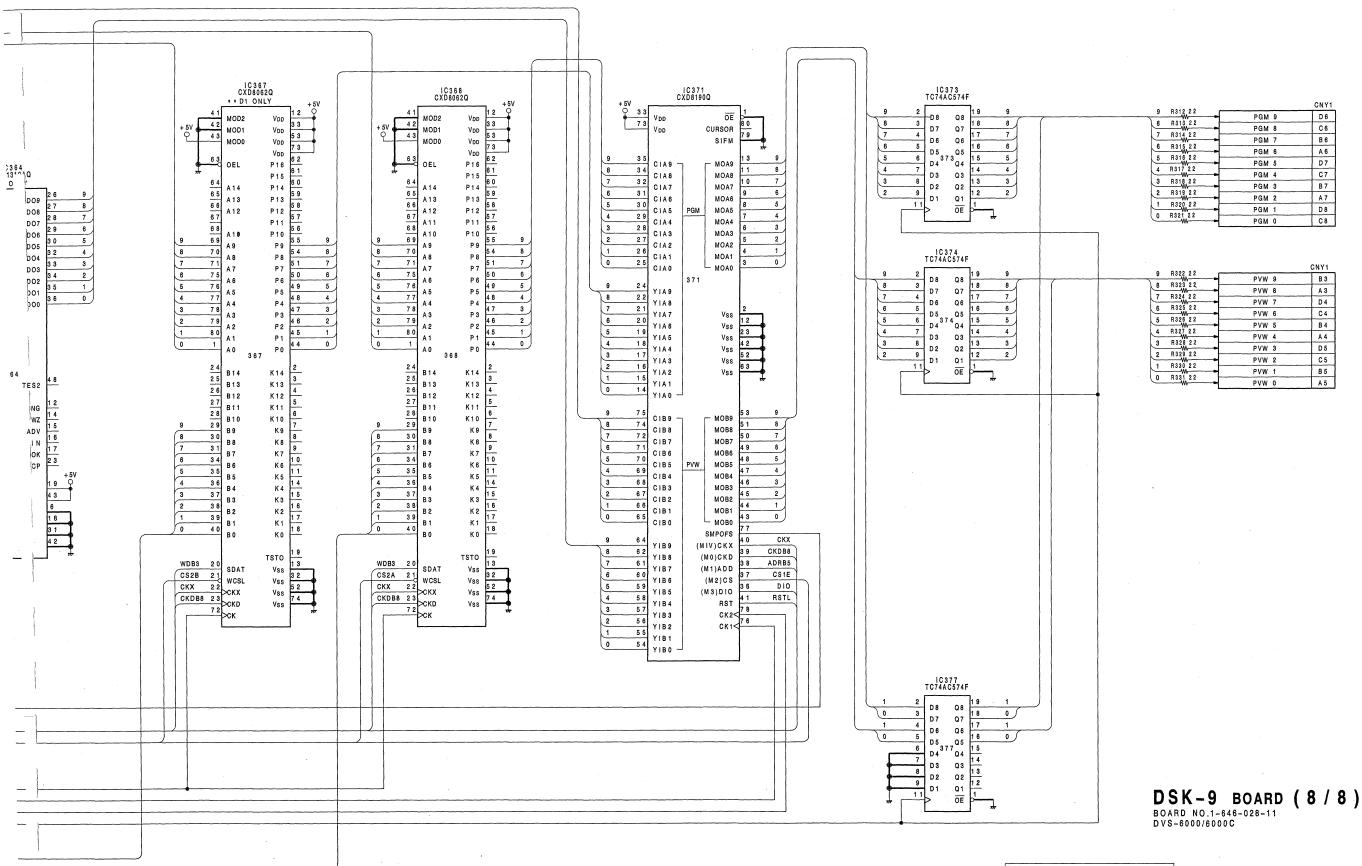
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DSK-9(7/8)



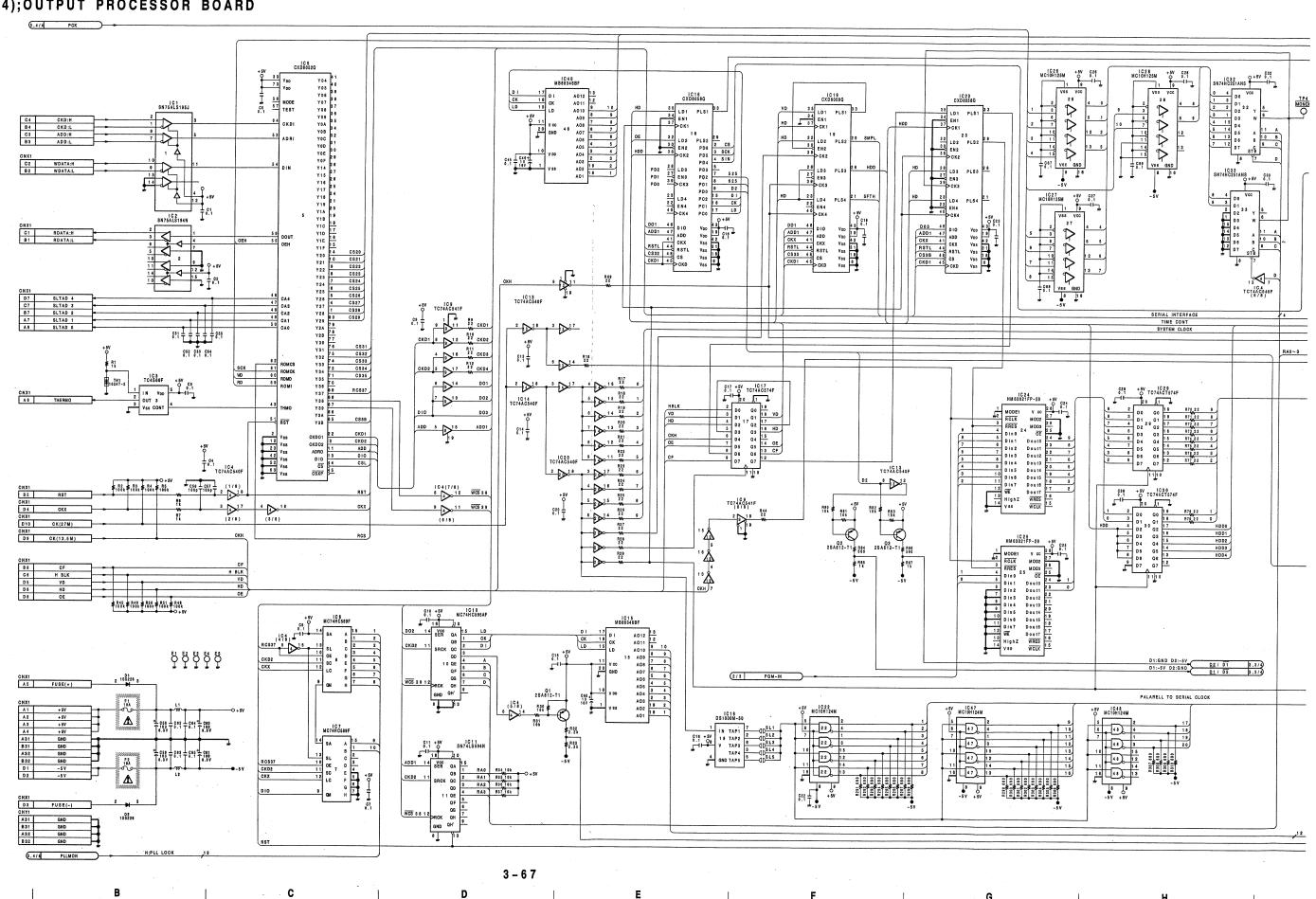
**D1(DVS-6000C) ONLY D2(DVS-6000) NO-MOUNT

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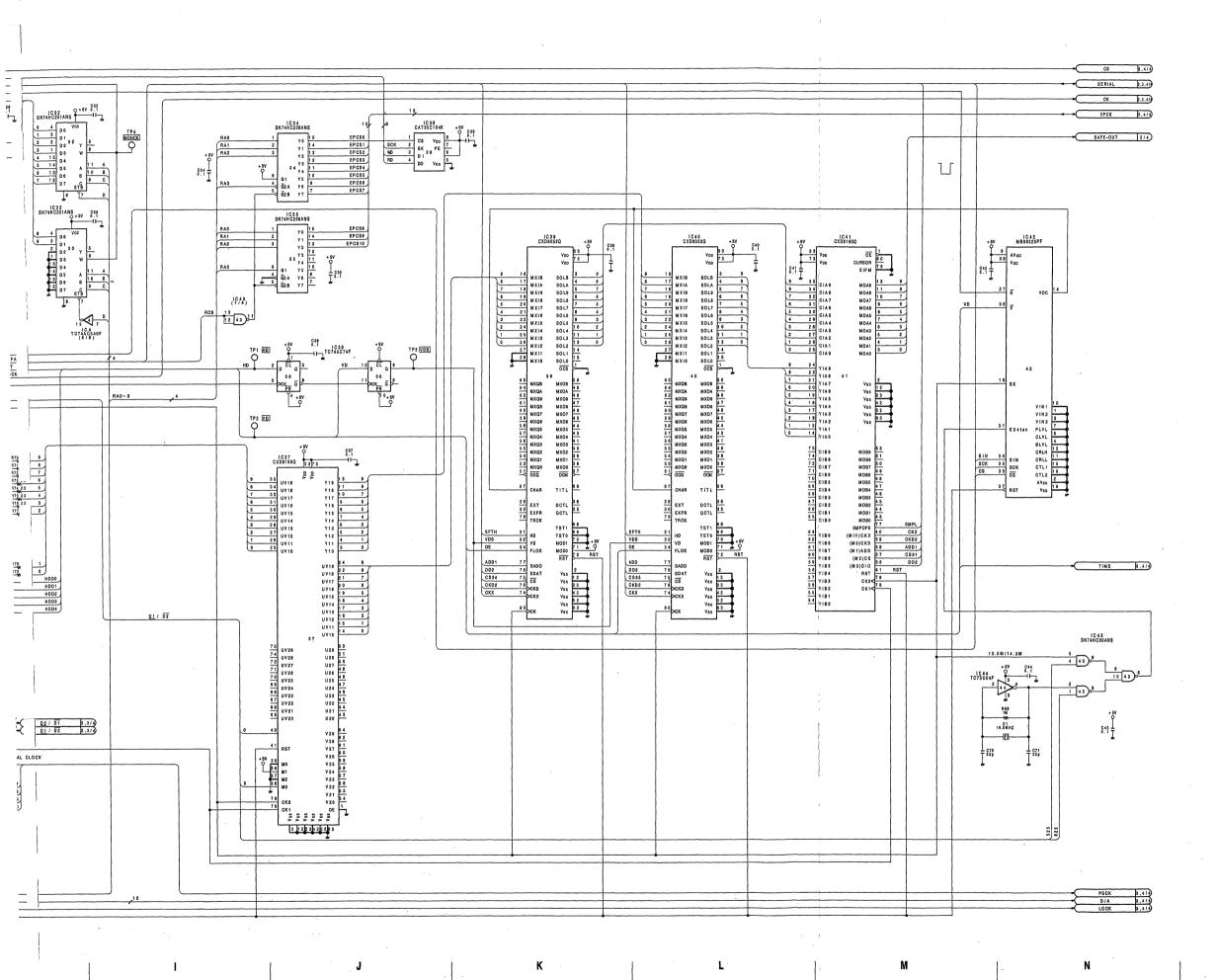
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OUT-3(1/4); OUTPUT PROCESSOR BOARD



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OUT-3 BOARD (1/4)
BOARD NO.1-646-029-11
DVS-6000/6000C

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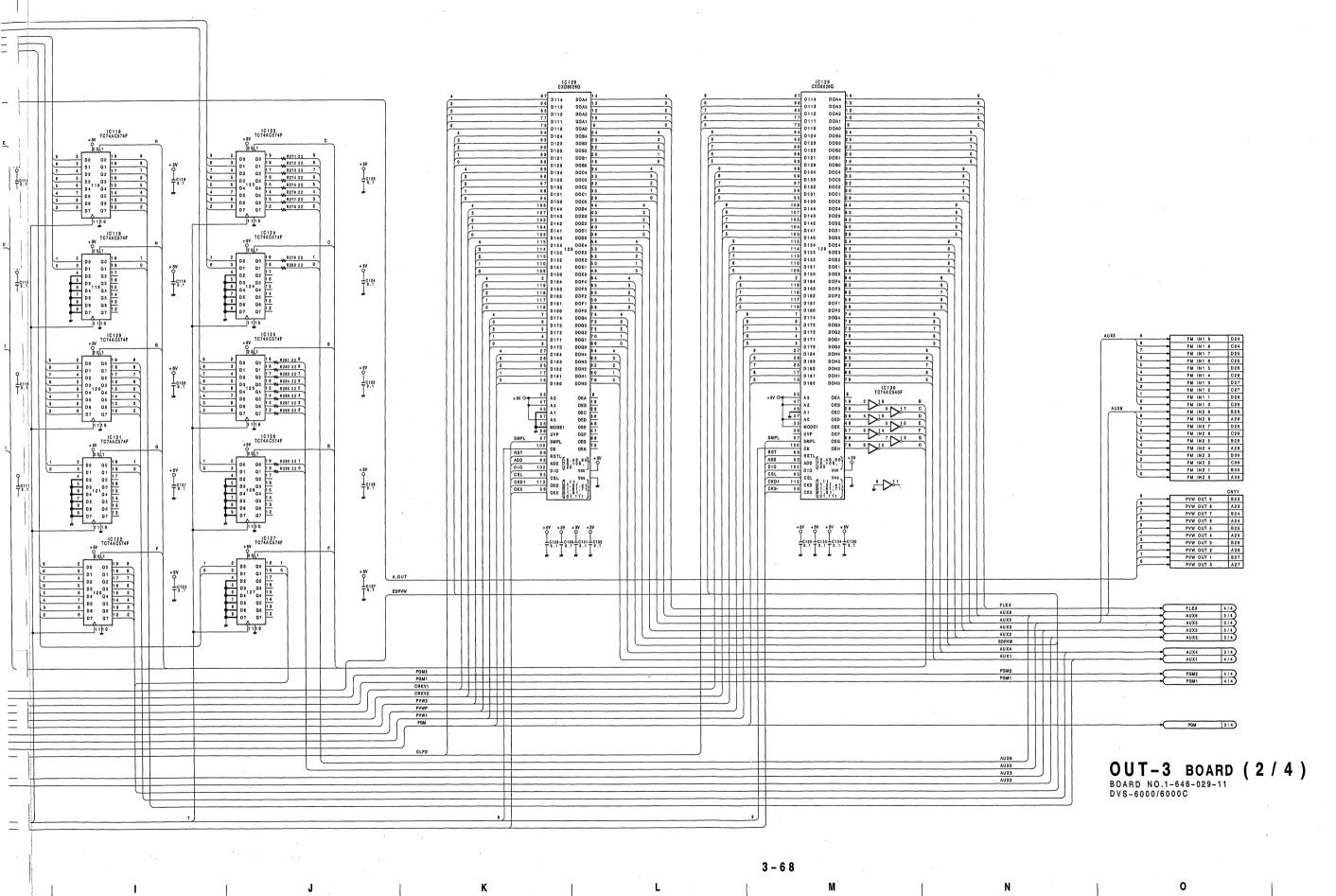
OUT-3(2/4);OUTPUT PROCESSOR BOARD

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1/4 CK 1/4 SERIAL	5) 6) 7)

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1/4 TIME 1/4 P8CK 20/ 1/4 D/A	AUX8 8 1 1 1 VIDEO 8 AUX8 4 2 2 VIDEO 4 AUX8 9 3 3 VIDEO 0 AUX8 0 3 3 VIDEO 0 AUX8 0 3 3 VIDEO 0 HOD 4 4 HD PCK 5 5 PCK PLIMON 8 6 PLIMON PCK 5 5 PCK PLIMON 8 6 PLIMON PSCK- 7 PSCK- 8 8 PSCK- 7 PSCK- PSCK- PSCK- PSCK- PSCK- PSCK- PSCK- PSCK- PSCK- 8 8 PSCK- CS 1 10 10 CS 1
	+SV CNC16 7 O CNC16 7 O CNC16 7 O CNC16 AUX8 7
1/4 08	SY CHOICE AUX 8 8 1 1 1 VIDEO 8 AUX 9 2 2 2 VIDEO 2 OF OF 9 7 3 OFF AUX 9 2 1 2 VIDEO 2 OF OF 3 3 OFF OF OF 3 0 OFF OF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
(2/4 AUX 4	CNA11 AUX4 9 1 1 1 VIDEO 9 AUX4 1 3 1 3 VIDEO 1 AUX4 1 3 3 1 3 VIDEO 1 AUX4 1 3 3 1 3 VIDEO 1 AUX4 1 3 3 1 3 VIDEO 1 AUX 1 3 3 3 VIDEO 1 AUX 2 4 4 01 01 0017 2 4 4 0017 2 CK 5 5 CK AUX 3 1 3 VIDEO 1 AUX 4 0 1 0 00 7 7 7 GND AUX 6 0 0 5 5 0 ND AUX 7 0 ND AUX 8 1 1 1 VIDEO 9 AUX 8 1 2 VIDEO 5 AUX 9 1 1 1 VIDEO 9 AUX 1 3 3 VIDEO 1 AUX 1 3 1 3 VIDEO 5 AUX 5 1 5 CK BOD CK 5 5 5 CK AUX 0 7 7 GND OUT 4 8 8 6 OUT 3 7 GND AUX 1 AUX 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
a	CS 2 10 10 CS 2 -5V CNB11 -5V CNB11 -5V CNB11 -5V CNB13 -5V C
	SCK OE 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	+SV 10 10 1-5V AUX4 1 1 1 VIDEO 6 AUX4 2 2 2 VIDEO 2 B AUX4 6 1 1 VIDEO 6 CF 3 3 3 CF AUX5 6 1 1 1 VIDEO 6 2 AUX5 6 1 1 1 VIDEO 6 2 AUX5 2 2 2 VIDEO 2 CF AUX5 2 3 CF AUX 0 AUX 0 4 4 0ND ADD ABT 5 5 ABT DIO ADD 6 6 6 ADD CKD1 ADD 7 7 7 DIO CKD1 ADD 6 6 8 8 CKD CKD2 DIO 7 7 7 DIO CKD2 CS28 CS28 CKD 8 8 9 0 CS 0
	OK(27 MHz,14.3 MHz) TIMMING PULSE PIS CLOCK DIA(Y) EPROM CHIP SEL SERIAL LOCK/REE RUN
	CHIP SEL

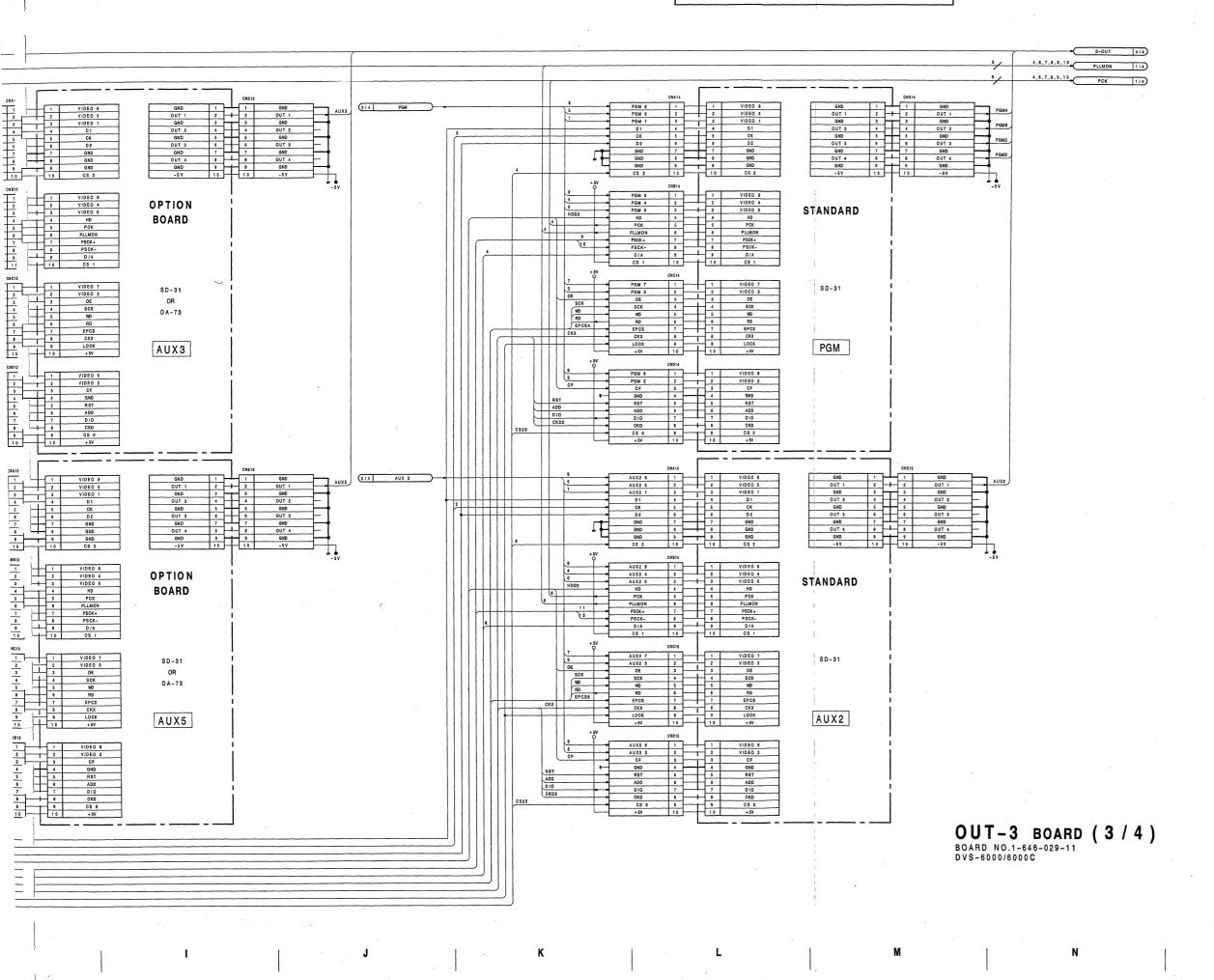
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(2)4 AUX 1	B CHAYE AUX1 9 1 1 VIDEO 9	ONE 18 CND 1 1 GND 41114 (2/4 PGM 1
	AUX1 5 2 2 VIDEO 5 AUX1 1 3 1 4 D1 CK 5 5 CK D2 6 D2 GND 7 7 GND GND 8 8 8 GND GND 9 9 GND CS 2 10 CS 2	GRU 1 1 2 OUT 1 GND 3 3 GND OUT 2 4 4 OUT 2 GND 5 5 GND OUT 3 6 6 OUT 3 GND 7 7 GND OUT 4 8 8 OUT 4 GND 9 GND OUT 4 8 9 GND -SV 10 10 -SV
	AUX1 8	STANDARD
	SV	SD-31
	*SV CND16 *SV CND16 *SV CND16 *SV CND16 *SV CND16 *SV CND16 **SV CND16	AUX1
2/4 PGM 2	D PGM2 0 1 1 1 VIDEO 9 B PGM2 5 2 2 VIDEO 5 1 PGM2 1 3 3 VIDEO 1 D1 4 4 4 D1 CK 6 5 5 CK	OND 1 1 GND PGM2 OUT 1 2 2 OUT 1 PGM2 OUT 2 4 4 OUT 2 GND GND S 6 GND
	D2 6 6 D2 GND 7 7 GND GND 8 8 GND GND 9 9 GND CS 2 10 10 CS 2 +SV CNB17 B PGM2 8 1 1 1 VIDEO 8	OUT 3 6 6 OUT 3 OND 7 OND 4 S S OUT 4 OND 9 O OND 10 -5V -5V
	PGM2 4 2 2 VIDEO 4 PGM2 0 3 5 VIDEO 0 HD 4 4 HD PCK 5 5 5 PCK PLLMON 6 6 PLLMON 15 PSCK 8 8 PSCK 18 PSCK 8 8 PSCK 0 10 10 CS 1	OPTION BOARD
	+SV	SD-31 OR DA-73
	+SV 10 10 +5V CND17 8 PGM2 6 1 1 1 VIDEO 6 2 PGM2 2 2 2 CF CF 3 5 CF RST 4 GNO 4 4 4 GNO ADD ADD 6 5 ADD D10 ADD 6 6 ADD	PGM2
1/4 D2/0T 1/4 OK 1/4 D1/02	CS22	
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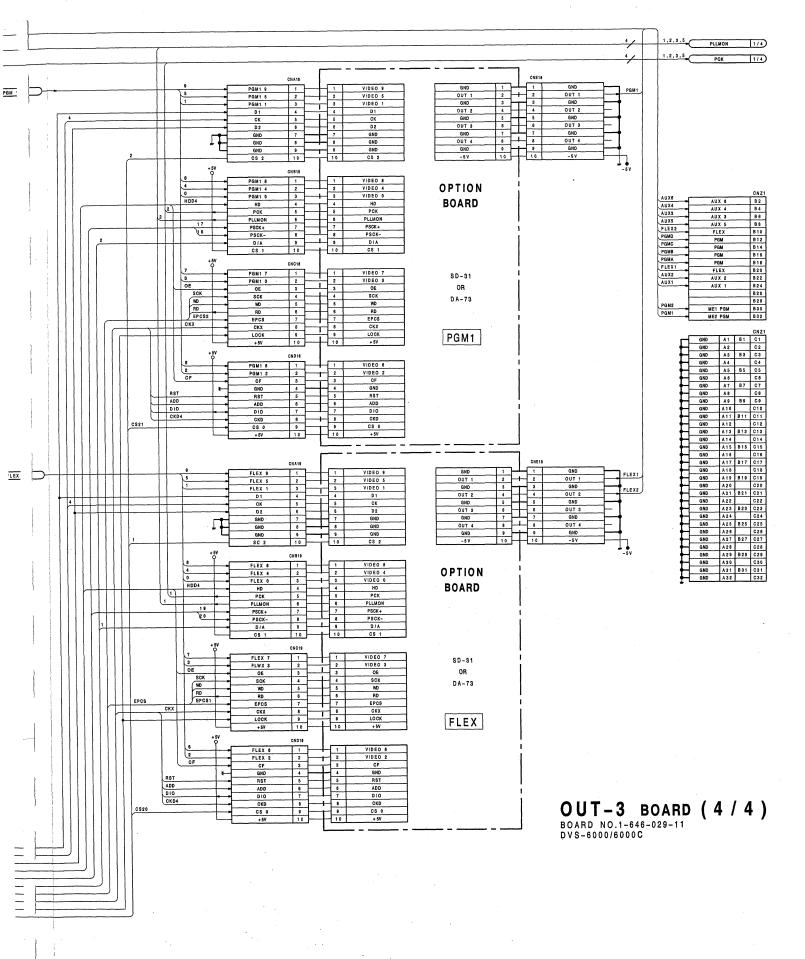
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OUT-3(4/4);OUTPUT PROCESSOR BOARD

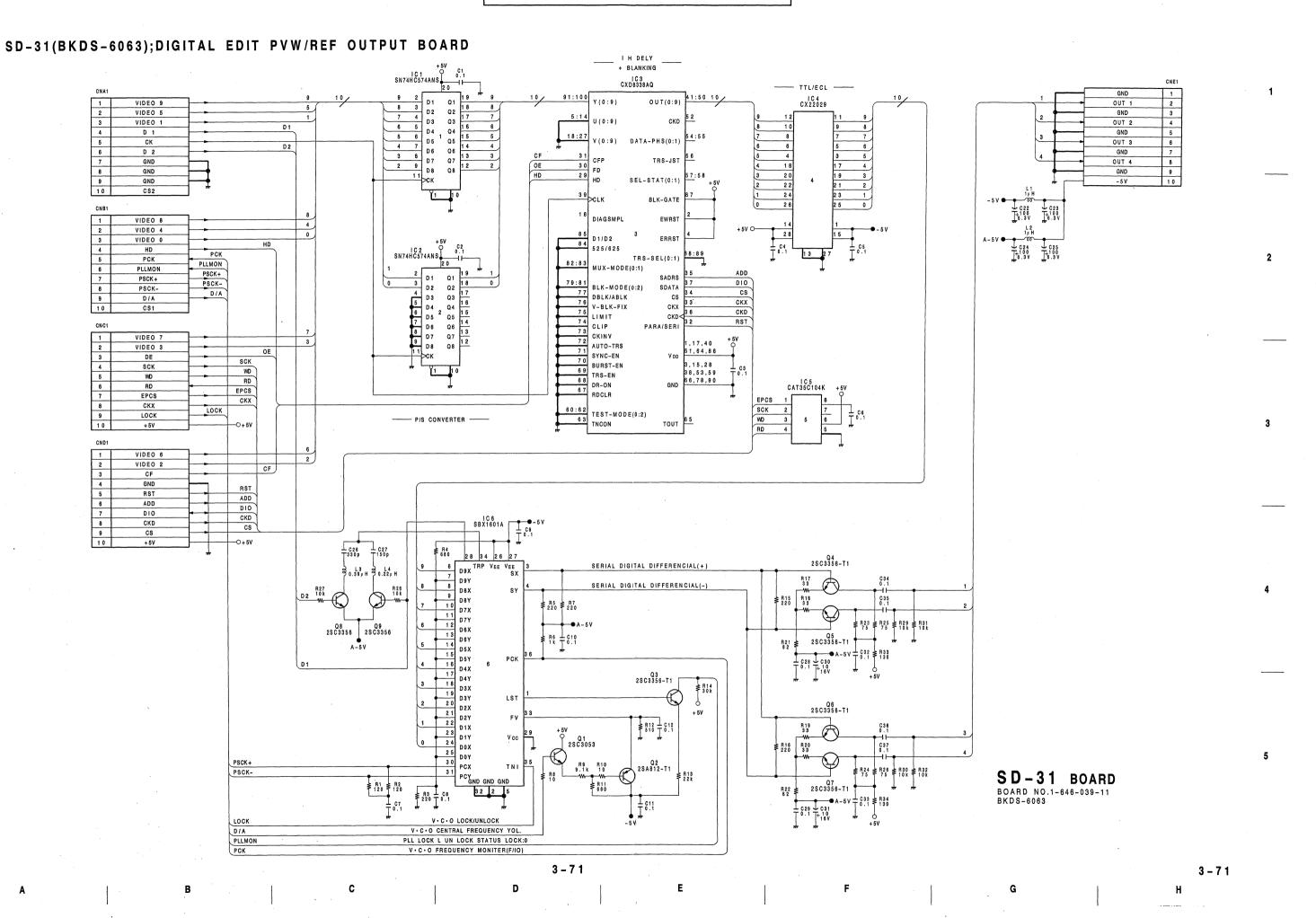
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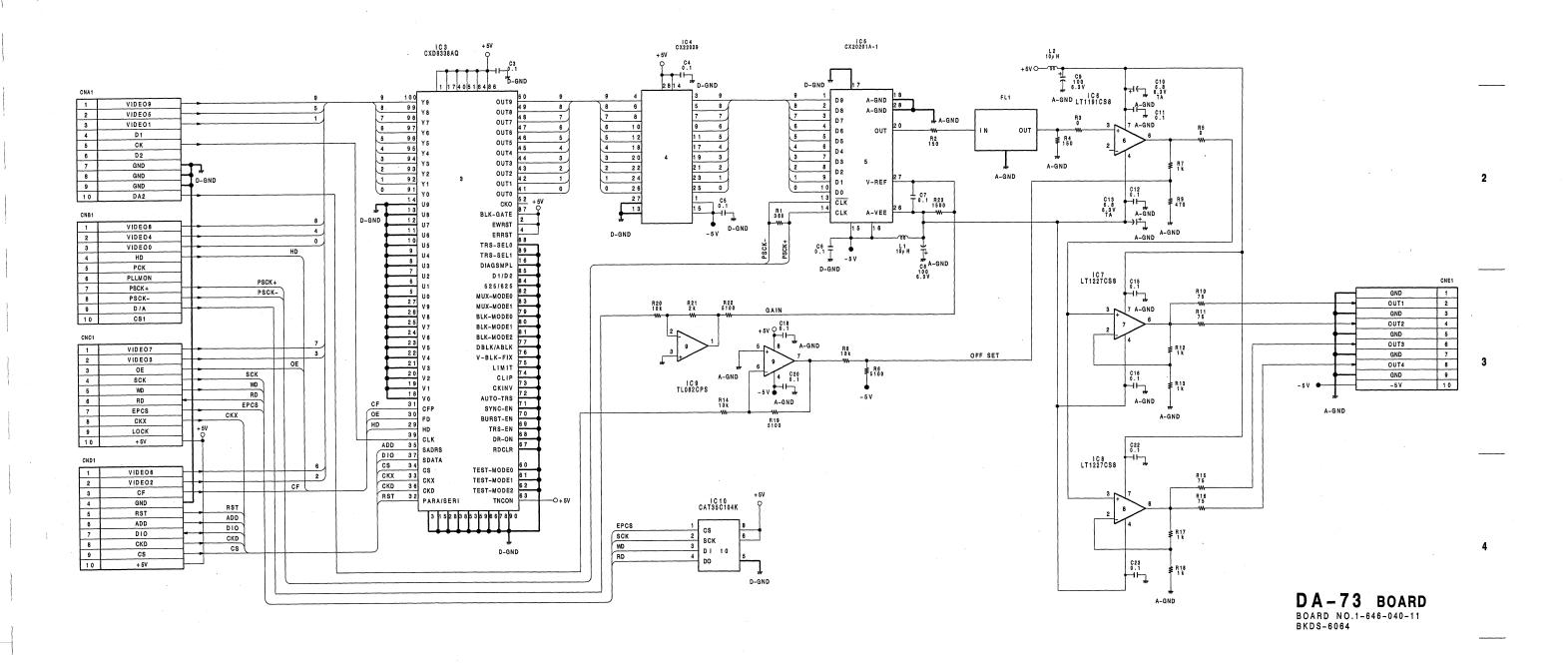
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DA-73(BKDS-6064); ANALOG OUTPUT BOARD: DVS-6000 ONLY



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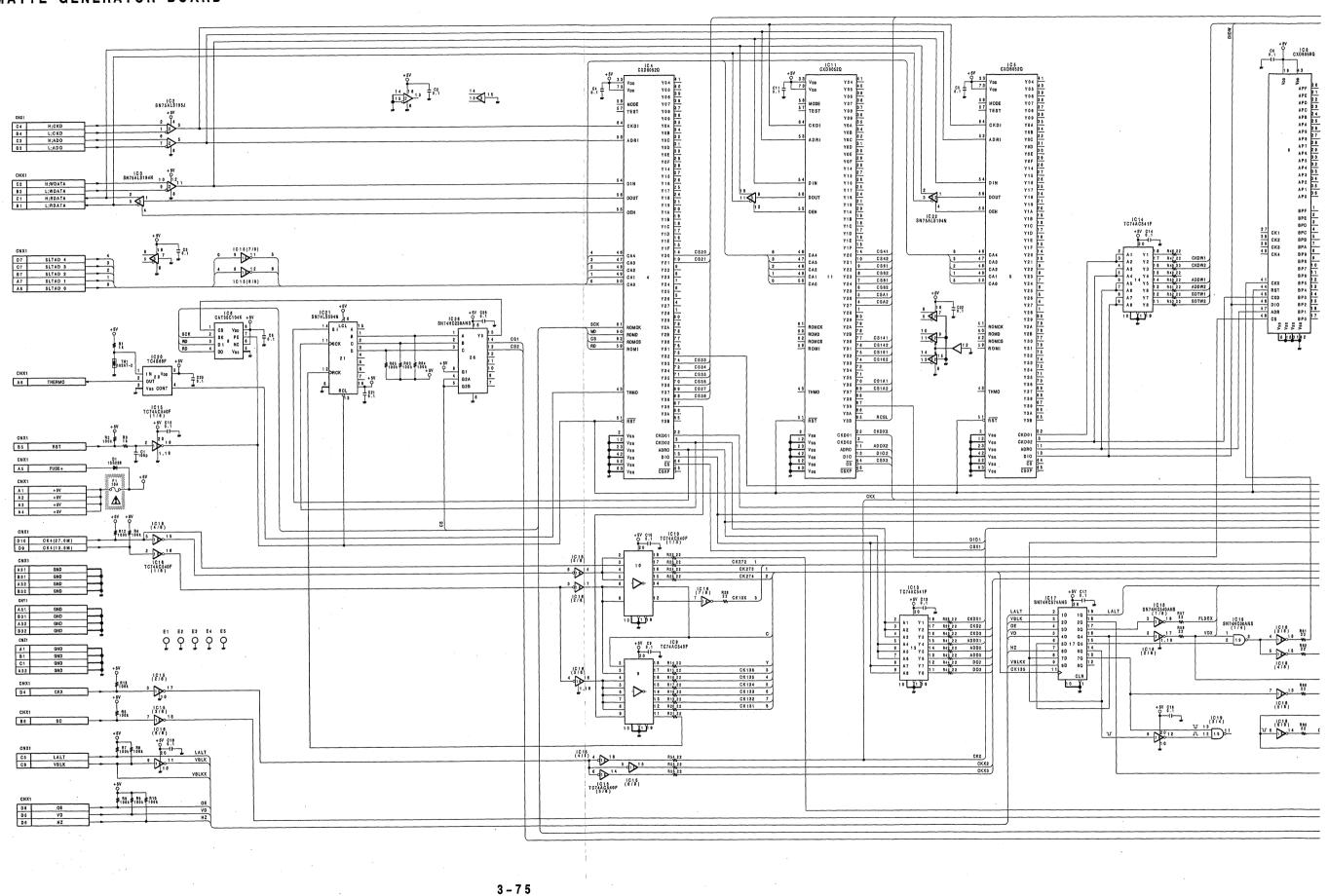
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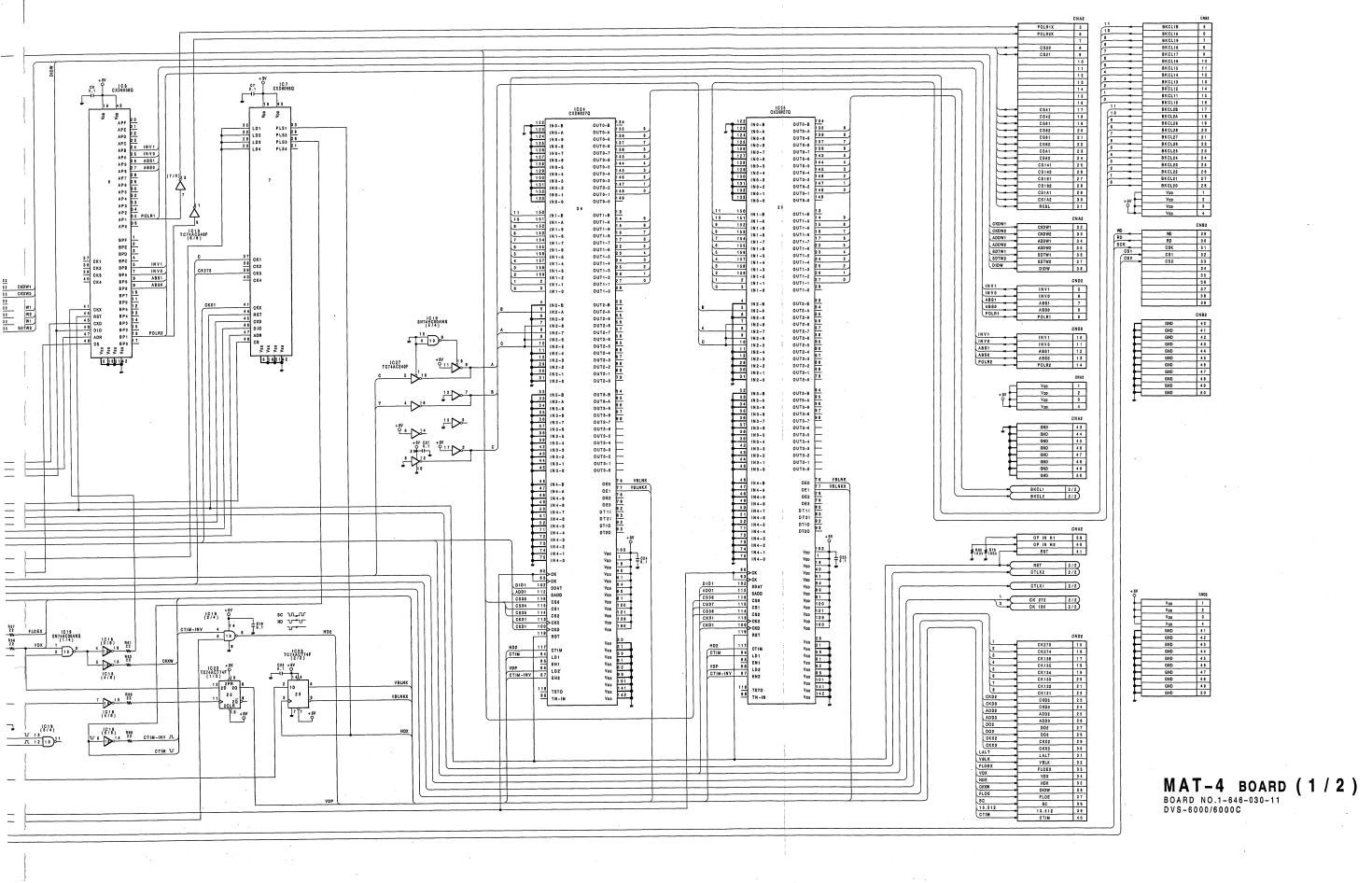
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MAT-4(1/2); MATTE GENERATOR BOARD





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MAT-4(2/2); MATTE GENERATOR BOARD

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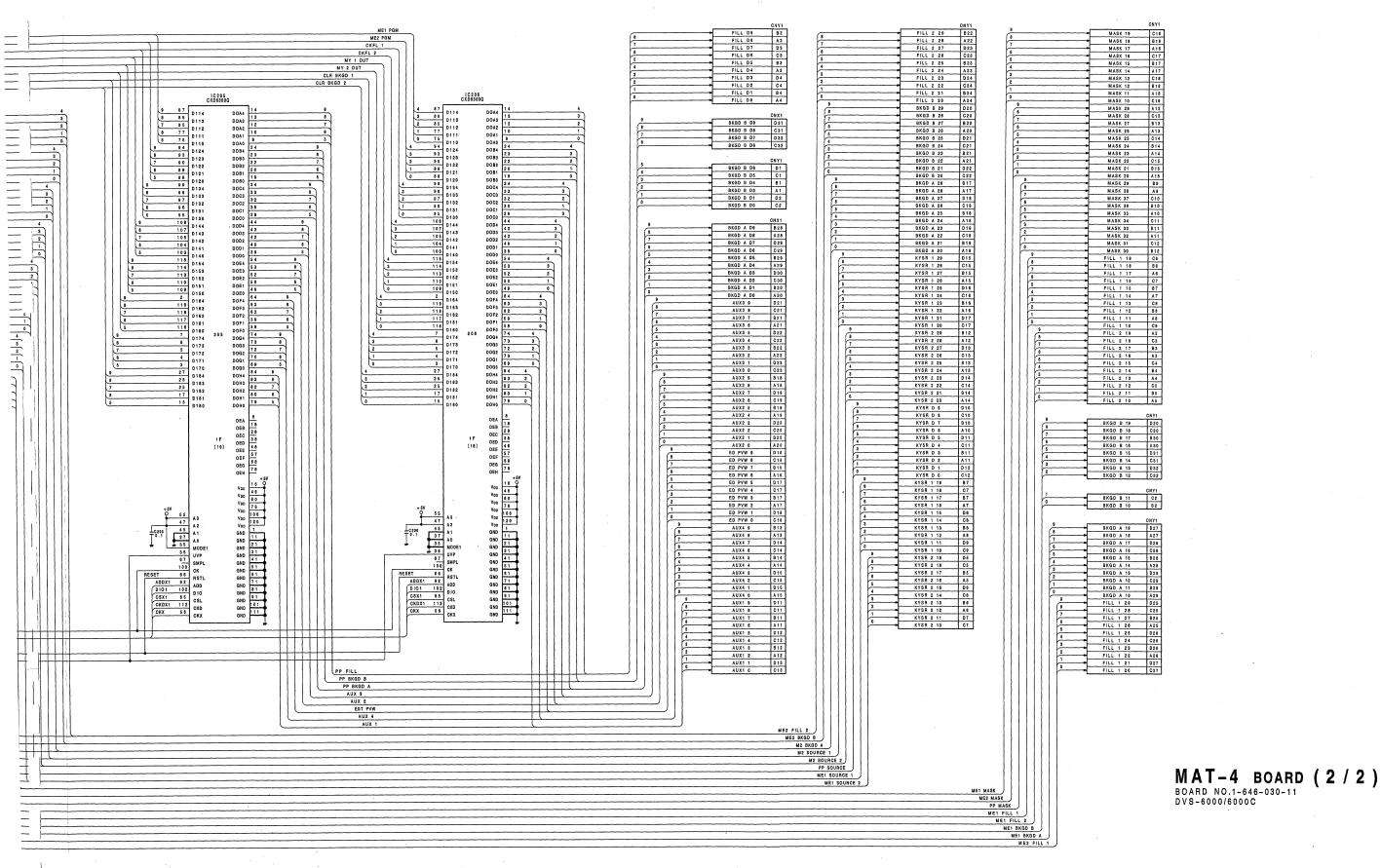
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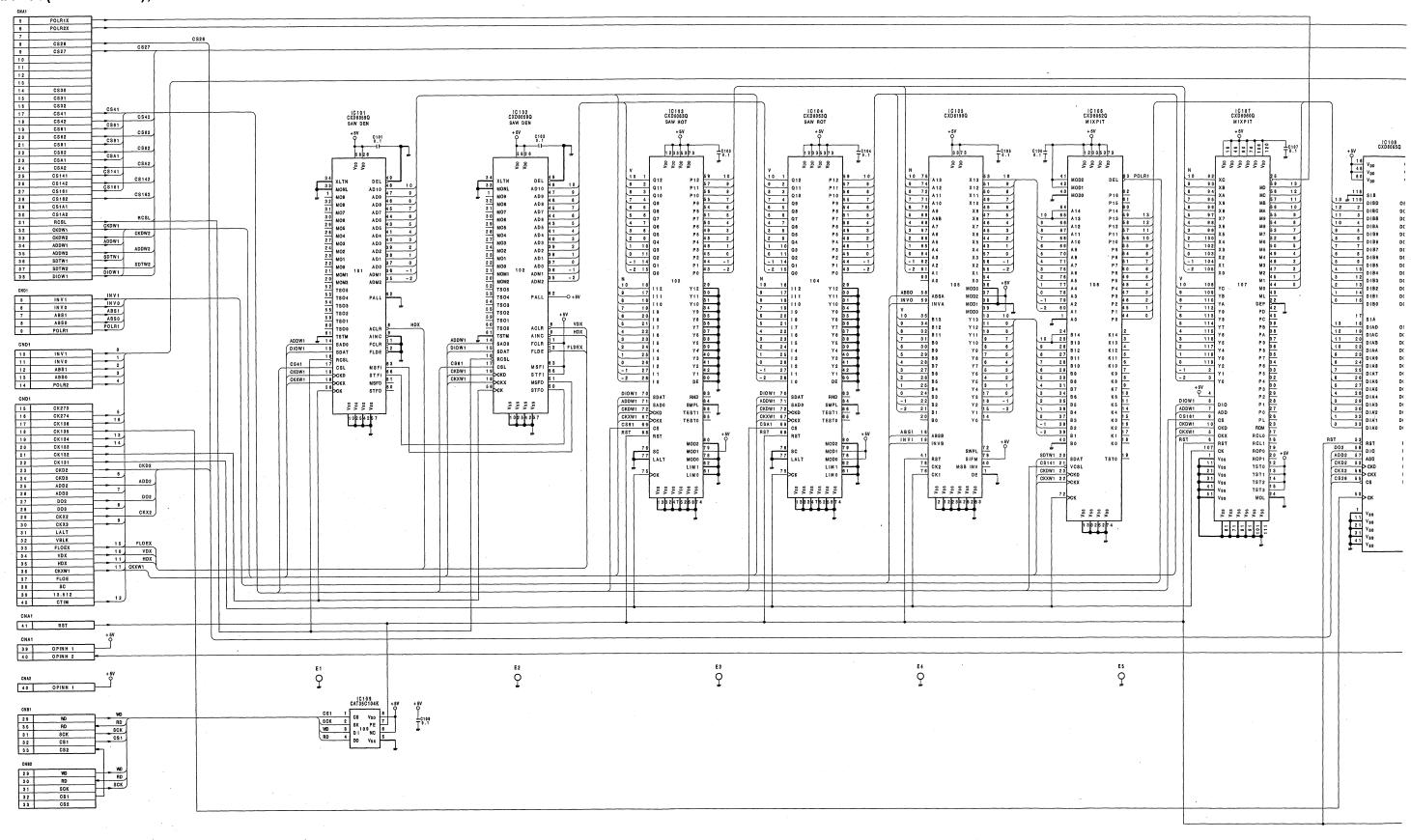
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MT-90(BKDS-6072);BKGD COLOR MIX GENERATOR BOARD

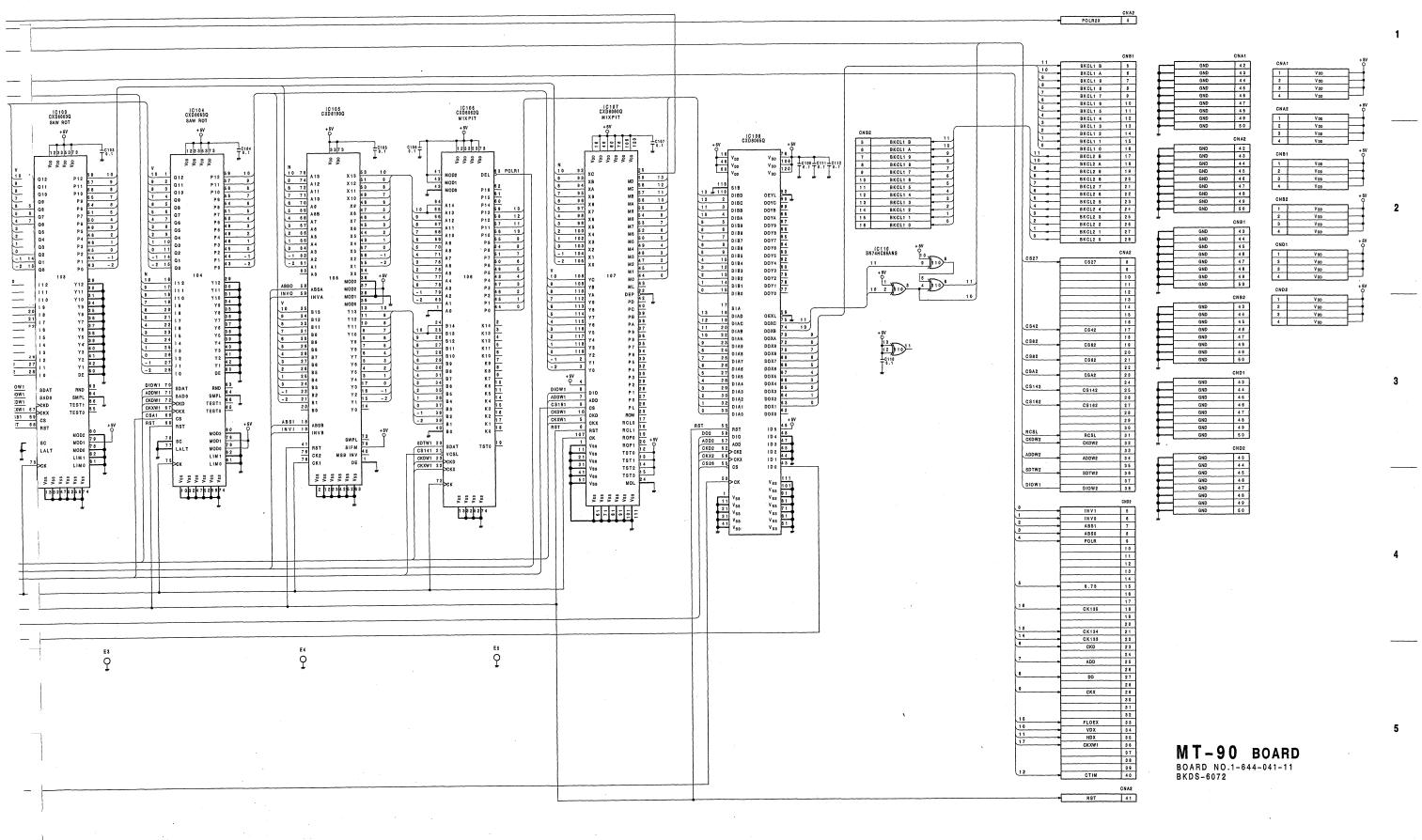


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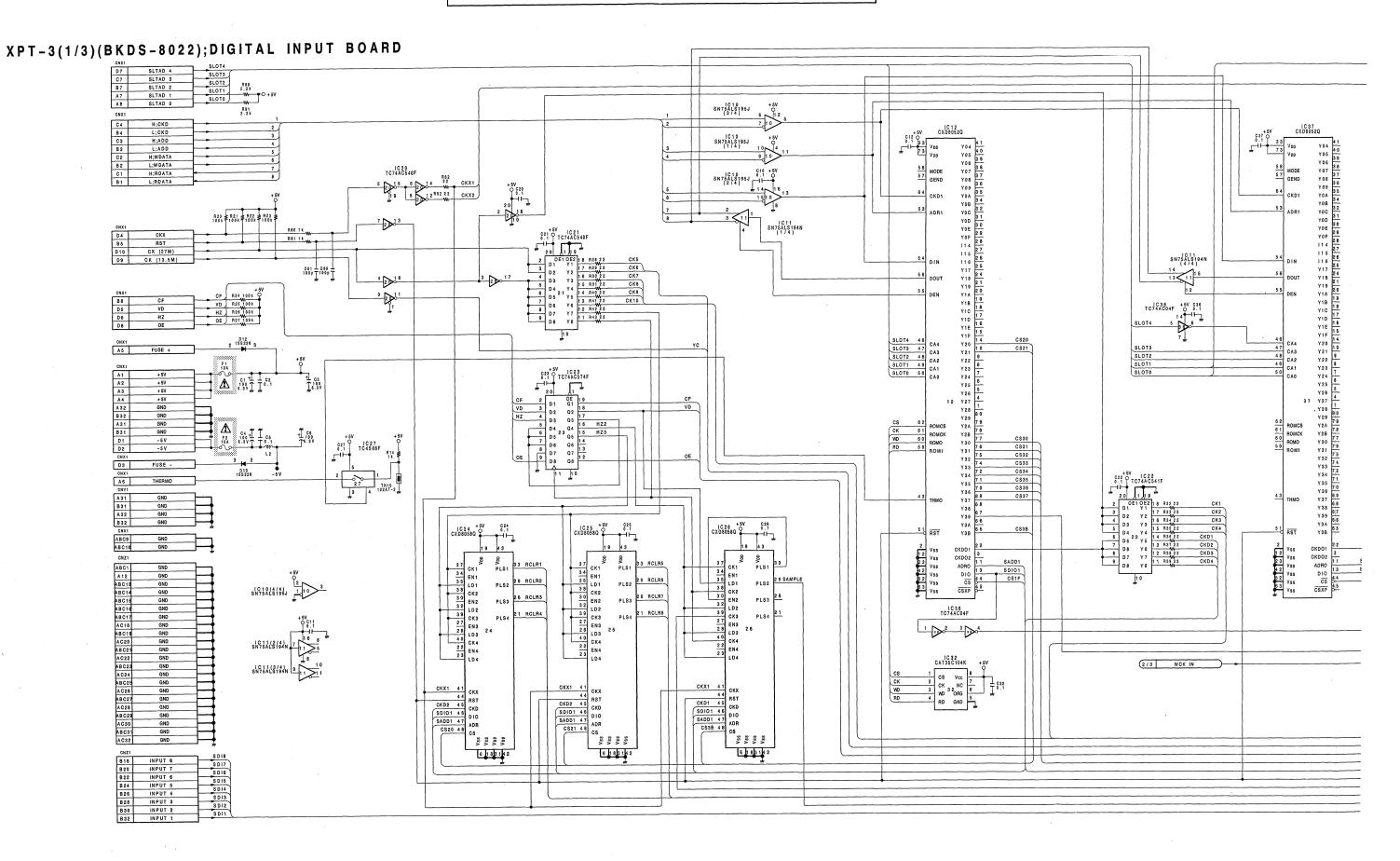
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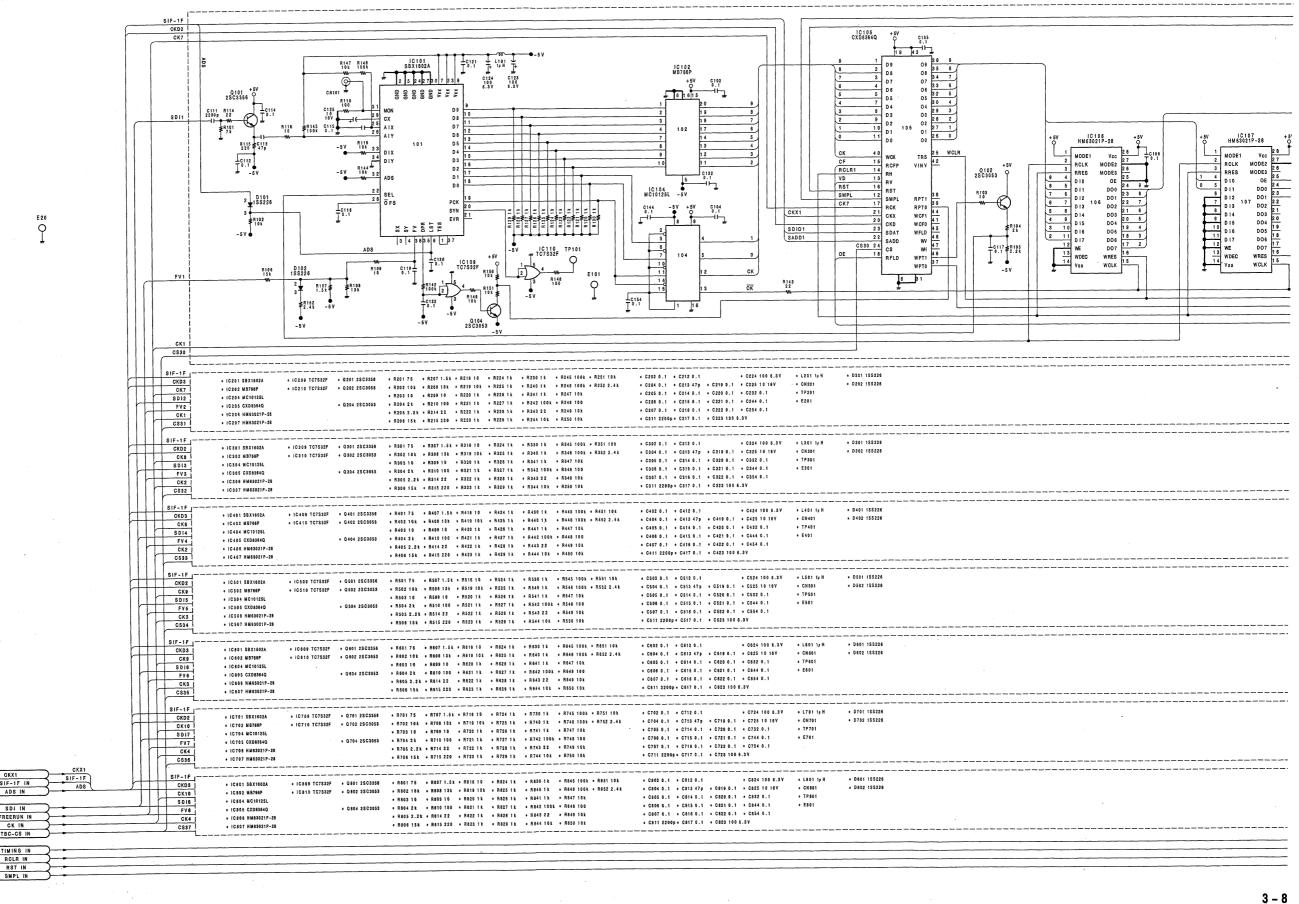
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XPT-3(2/3)(BKDS-8022);DIGITAL INPUT BOARD



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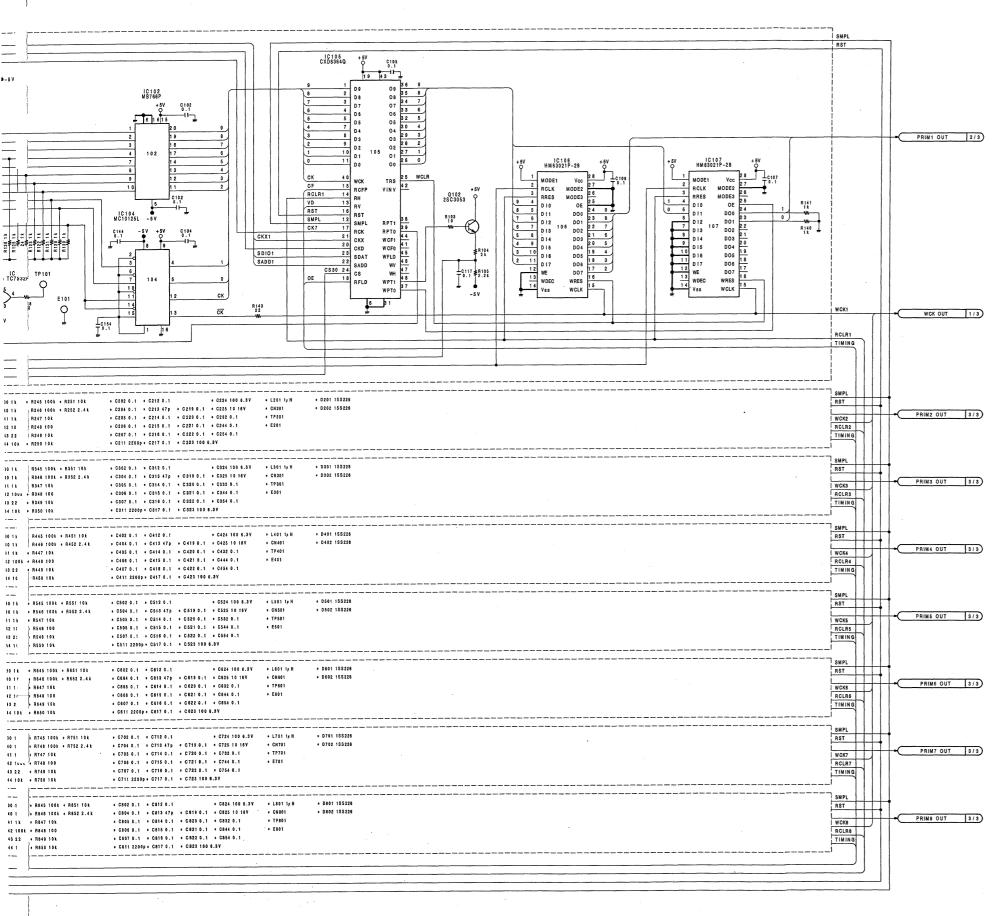
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XPT-3 BOARD (2/3)
BOARD NO.1-641-009-11

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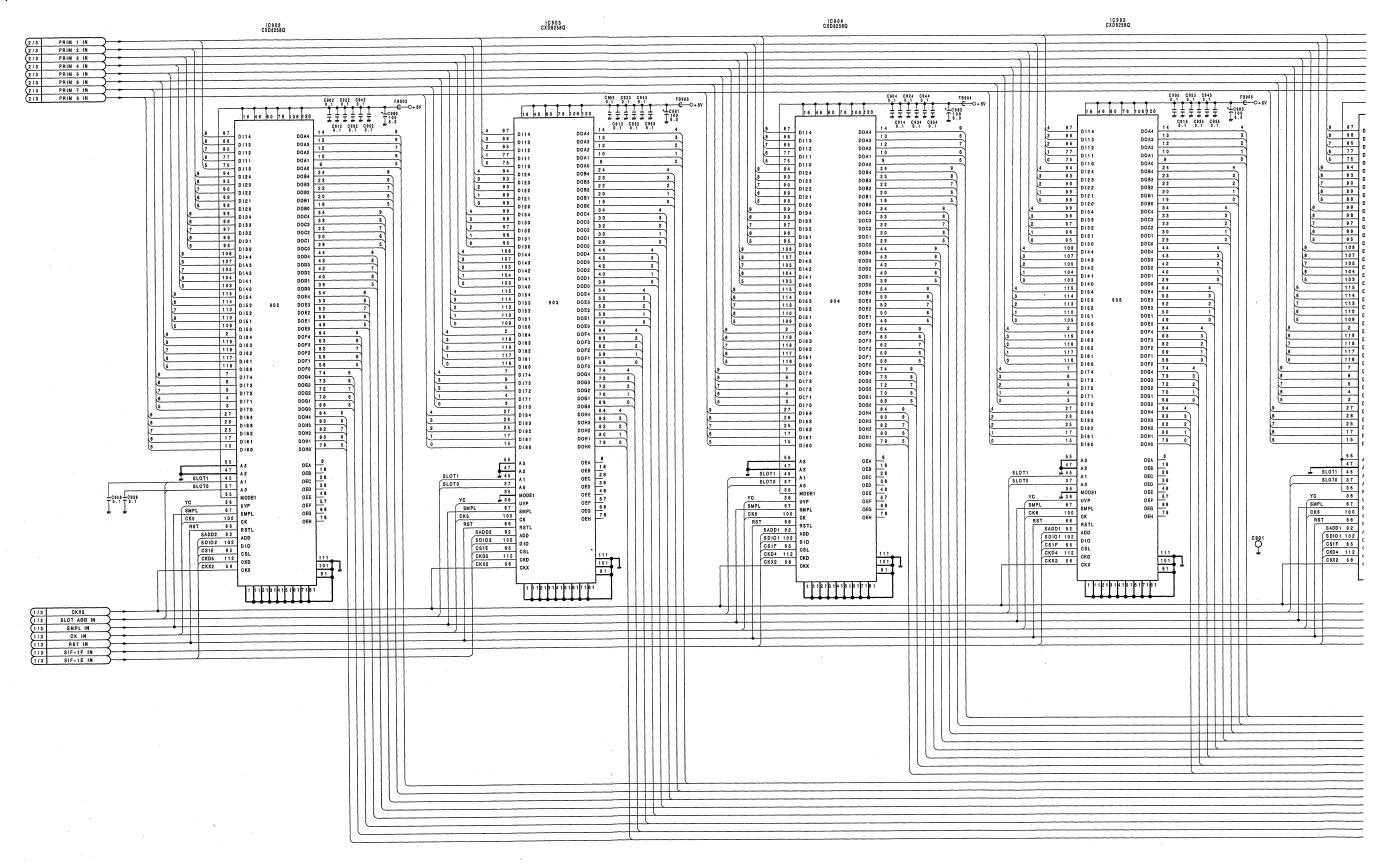
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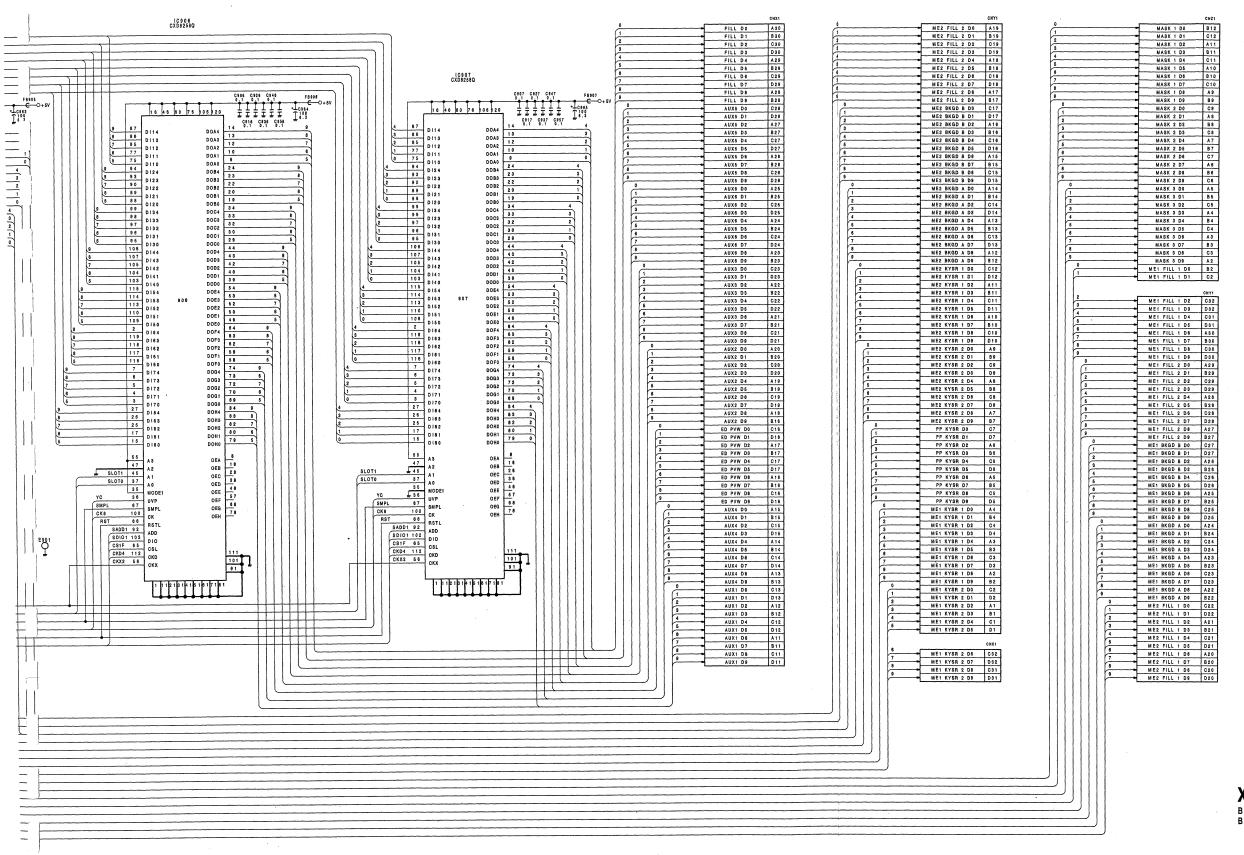
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XPT-3(3/3)(BKDS-8022);DIGITAL INPUT BOARD



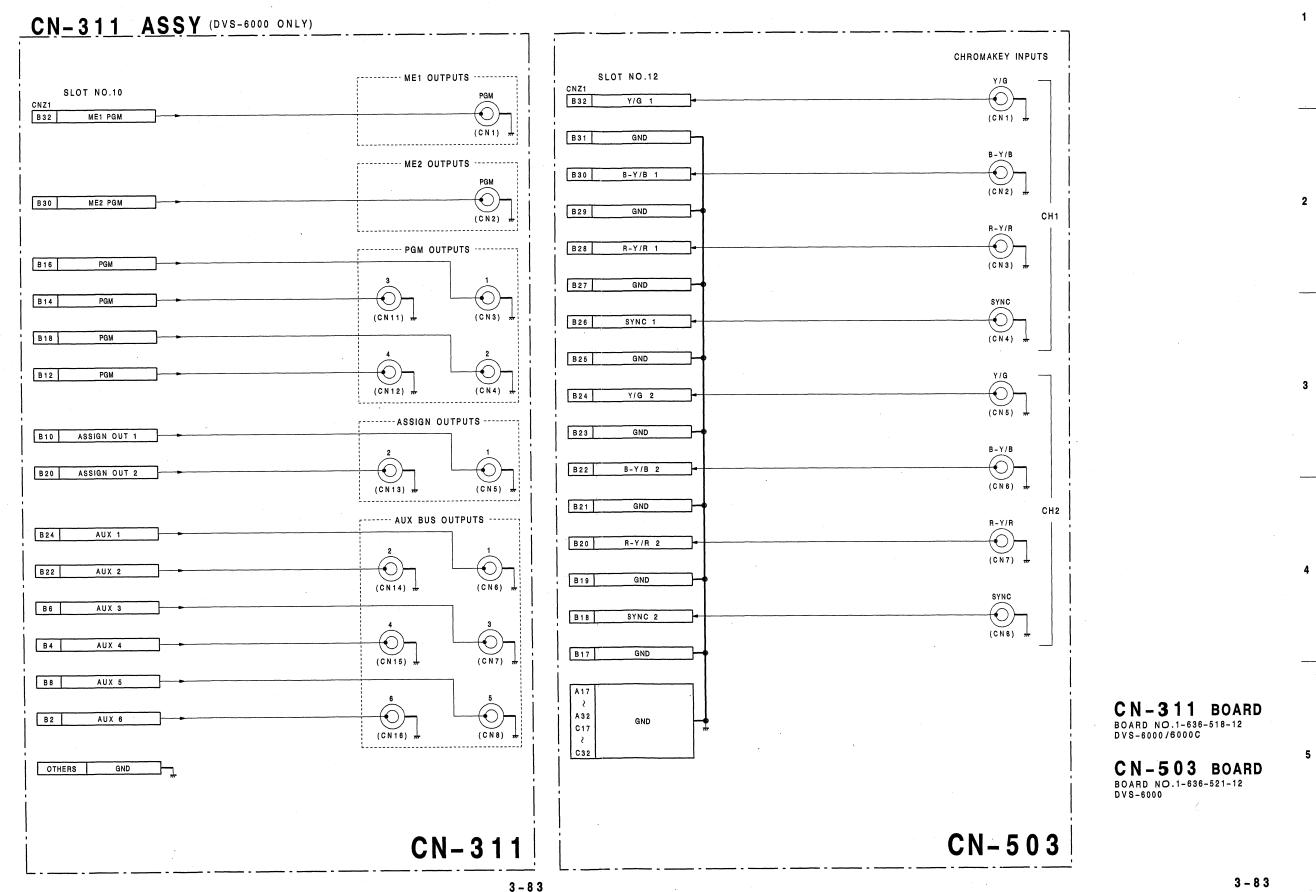
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XPT-3 BOARD (3/3) BOARD NO.1-641-009-11 BKDS-8022

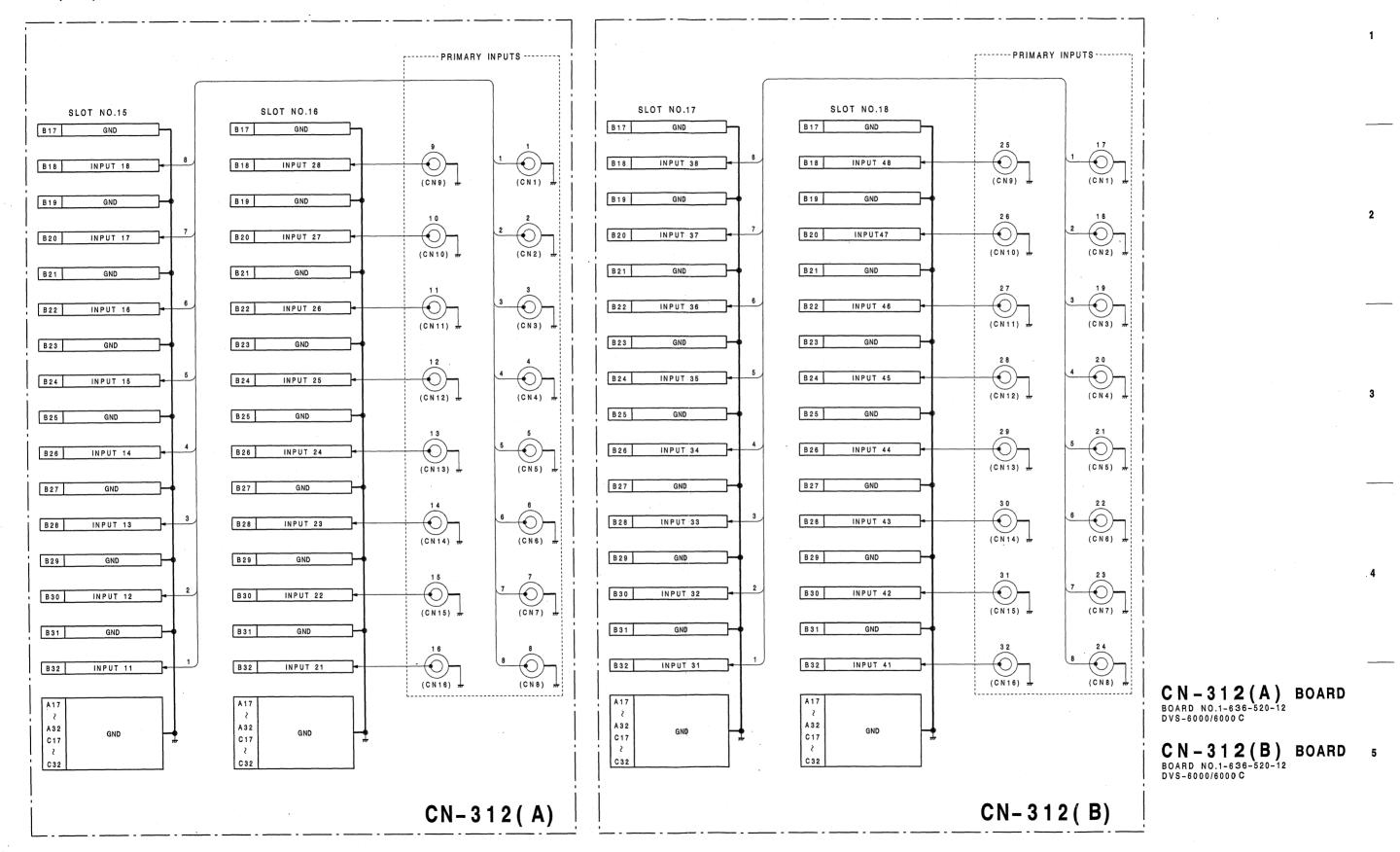
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CN-311;OUTPUT CONNECTOR BOARD CN-503;CHROMA KEY INPUT CONNECTOR BOARD:DVS-6000 ONLY



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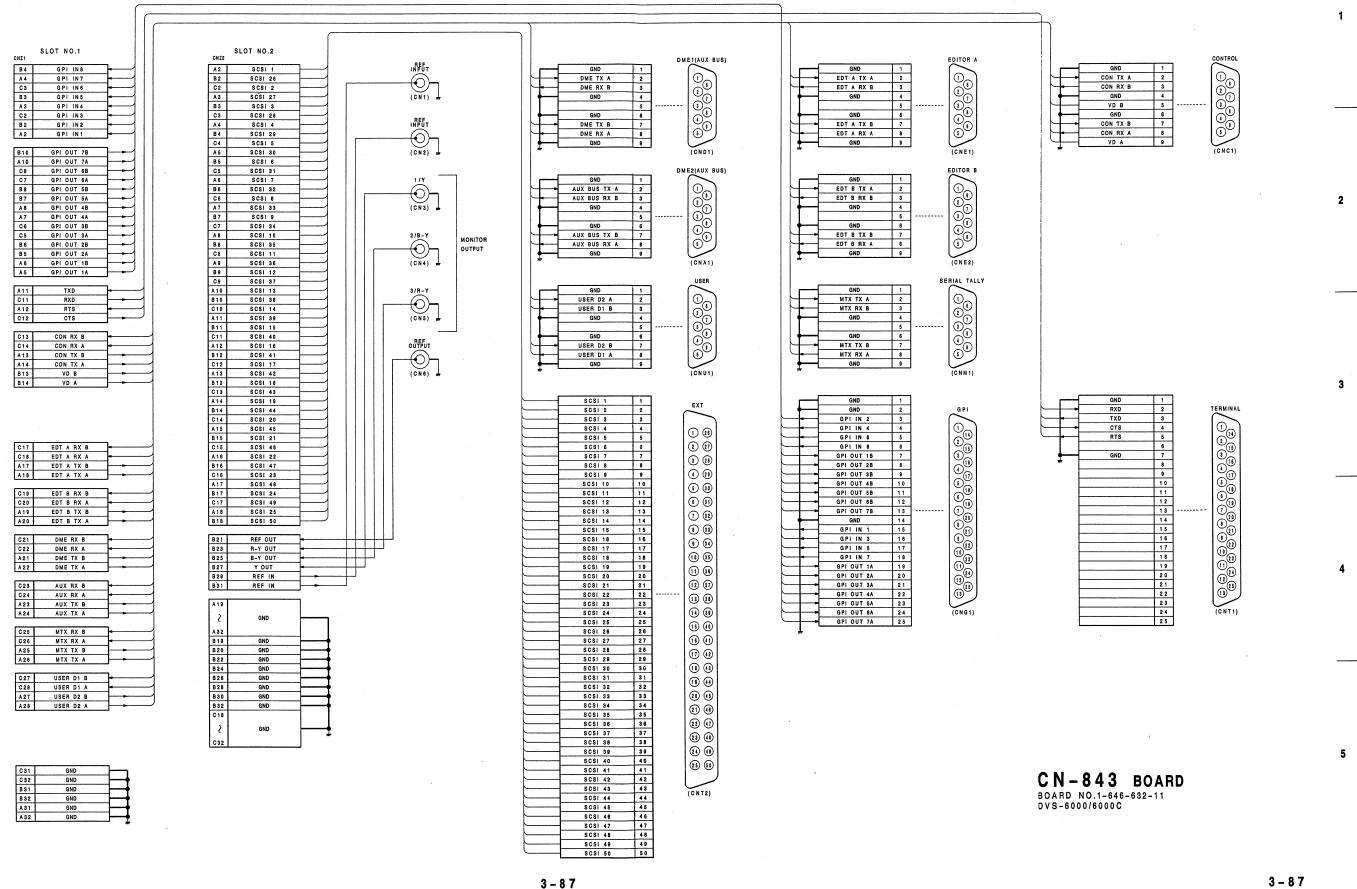
CN-312(A,B); PRIMARY INPUT CONNECTOR BOARD



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CN-843; CONTROL CONNECTOR BOARD

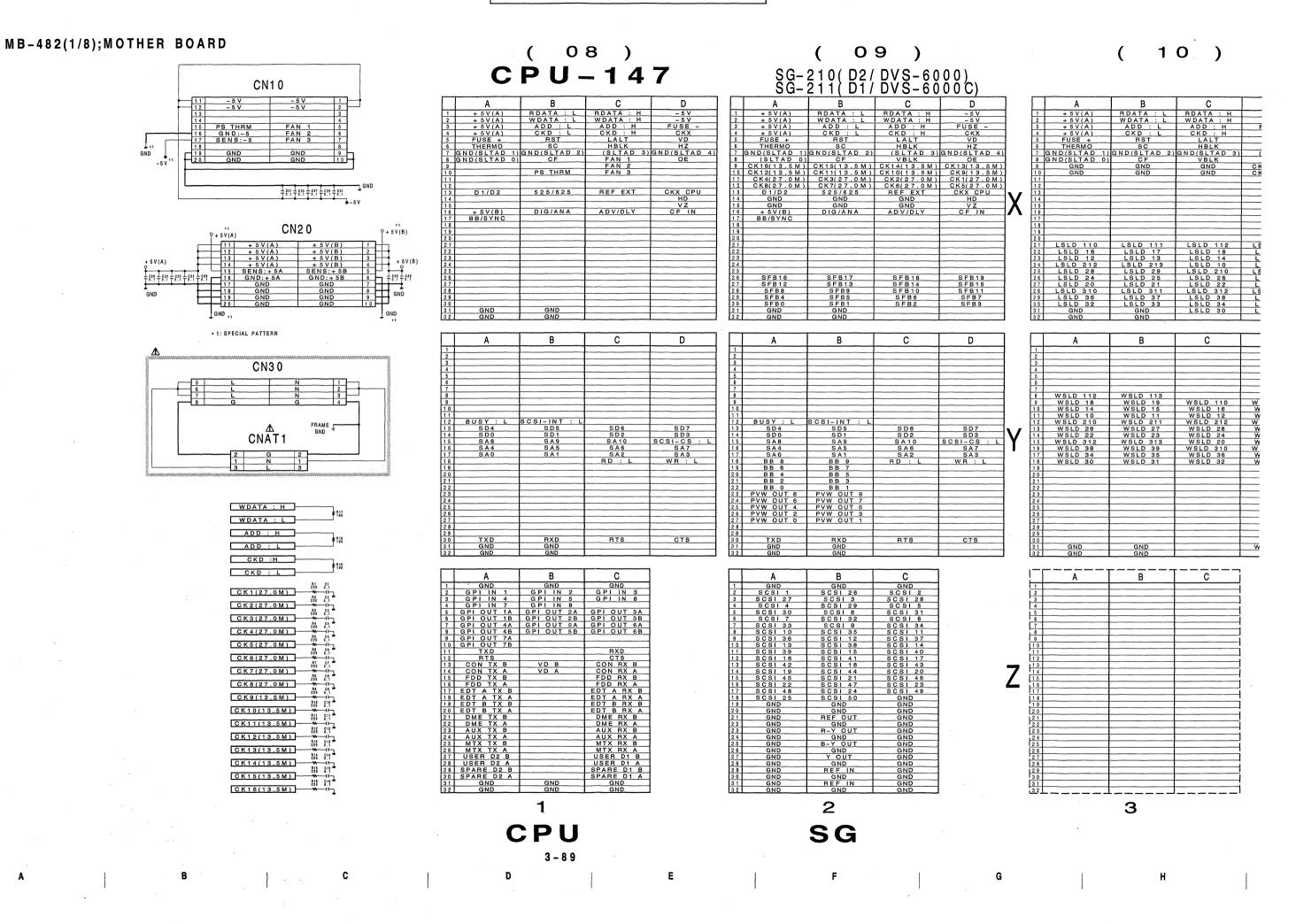


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MB-482(2/8); MOTHER BOARD

(12) KPC-5	(13) MIX-8	(14) KPC-5	(15 MIX —
A B C D D	A B C D 1	A B C D 1 +5V(A) RDATA: L RDATA: H -5V 2 +5V(A) WDATA: L WDATA: H -5V 3 +5V(A) ADD: L ADD: H FUSE - 4 +5V(A) CKD: L CKD: H CKX 5 FUSE + RST LALT WD 6 THERMO SC HBLK HZ 7 GND(SLTAD 1) (SLTAD 2) GND(SLTAD 3) (SLTAD 4) 8 GND(SLTAD 1) CF VBLK OE 9 GND GND GND CK11(13.5 M) 10 GND GND GND CK11(13.5 M) 11 MEFL 2 28 MEFL 2 29 12 MEFL 2 24 MEFL 2 25 MEFL 2 26 MEFL 2 27 13 MEFL 2 20 MEFL 2 21 MEFL 2 22 MEFL 2 23 14 MEFL 1 22 MEFL 1 27 MEFL 1 28 MEFL 1 29 15 MEFL 1 22 MEFL 1 27 MEFL 1 28 MEFL 1 29 16 KYSR 2 28 KYSR 2 29 MEFL 1 24 MEFL 1 25 16 KYSR 2 28 KYSR 2 29 MEFL 1 20 MEFL 1 21 17 KYSR 2 24 KYSR 2 25 KYSR 2 26 KYSR 2 27 18 KYSR 2 20 KYSR 2 21 KYSR 2 26 KYSR 2 27 18 KYSR 1 22 KYSR 1 23 KYSR 1 28 KYSR 1 29 20 KYSR 1 22 KYSR 1 23 KYSR 1 28 KYSR 1 29 20 KYSR 1 26 KYSR 2 1 KYSR 2 26 KYSR 1 29 20 KYSR 1 26 KYSR 2 1 KYSR 1 28 KYSR 1 29 20 KYSR 1 26 KYSR 1 27 KYSR 1 28 KYSR 1 29 20 KYSR 1 26 KYSR 1 27 KYSR 1 28 KYSR 1 29 20 KYSR 1 26 KYSR 2 1 KYSR 2 26 MEBG A 27 23 MEBG A 28 MEBG A 29 KYSR 1 28 KYSR 1 29 24 MEBG B 26 MEBG B 27 MEBG B 28 MEBG A 29 25 MEBG B 20 MEBG B 27 MEBG B 28 MEBG B 29 26 CRKY 28 CRKY 29 MEBG B 20 MEBG B 21 27 CRKY 24 CRKY 25 CRKY 25 CRKY 26 CRKY 27 28 CRKY 20 CRKY 21 CRKY 22 CRKY 22 CRKY 23 39 BKGD A 22 BKGD A 23 BKGD A 24 BKGD A 25 30 BKGD A 22 BKGD A 23 BKGD A 24 BKGD A 25 31 GND GND	A B 1 +5V(A) RDATA : L RDAT 2 +5V(A) ADD : L ADD 4 +5V(A) ADD : L ADD 5 FUSE + RST 6 THERMO SC HI 7 GND(SLTAD 1) (SLTAD 2) GND(S 8 (SLTAD 0) GND GND 10 GND GND GND 11 MEFL 2 28 MEFL 2 25 MEFL 13 MEFL 2 20 MEFL 2 25 MEFL 14 MEFL 2 24 MEFL 2 25 MEFL 15 MEFL 1 22 MEFL 1 23 MEFL 16 MEFL 1 22 MEFL 1 23 MEFL 17 MEFL 2 20 MEFL 2 25 MEFL 18 MEFL 2 20 MEFL 2 25 MEFL 19 MEFL 2 20 MEFL 2 25 MEFL 10 MEFL 2 20 MEFL 2 21 MEFL 11 MEFL 2 20 MEFL 2 25 MEFL 12 MEFL 2 20 MEFL 2 25 MEFL 12 MEFL 2 20 MEFL 2 21 MEFL 15 MEFL 1 22 MEFL 1 23 MEFL 16 MEFL 1 26 MEFL 1 23 MEFL 17 MEFL 16 MEFL 1 26 MEFL 1 23 MEFL 16 MEFL 1 26 MEFL 2 25 MEFL 16 MEFL 1 27 MEFL 17 MEFL 18 MEFL 1 28 MEFL 1 23 MEFL 16 MEFL 1 29 MEFL 1 23 MEFL 16 MEFL 1 20 MEFL 1 23 MEFL 17 MEFL 18 MEFL 1 20 MEFL 1 23 MEFL 16 MEFL 1 20 MEFL 1 23 MEFL 17 MEFL 18 MEFL 1 20 MEFL 1 23 MEFL 19 MEFL 19 MEFL 1 20 MEFL 1 23 MEFL 10 MEFL 11 MEFL 1 20 MEFL 1 23 MEFL 12 MEBG B 20 MEBG B 20 MEBG 26 MEBG B 20 MEBG B 21 MEBG 27 PGM 26 PGM 27 PGI 28 PGM 22 PGM 23 PGI 29 PGM 22 PGM 23 PGI 30 MED GND GND 31 GND GND
BKGD B 16	A B C D 1 2	A B C D D	A B 1 2 3 PVW 28 PVW 29 3 PVW 25 PV 6 PVW 24 PVW 25 PVW 26 PVW 21 PVW 26 PVW 21 PVW 21 PVW 25 PVW 21 PVW 2
A B C GND GND GND 1 GND GND GND 2 BDKS 2 19 BDKS 2 110 BDKS 2 111 3 BDKS 2 16 BDKS 2 17 BDKS 2 18 4 NRKS 2 111 BDKS 2 14 BDKS 2 18 5 NRKS 2 18 NRKS 2 19 NRKS 2 15 6 NRKS 2 15 NRKS 2 19 NRKS 2 110 7 NRKS 2 15 NRKS 2 19 NRKS 2 110 8 NTRS 111 NRKS 2 10 NRKS 2 11 9 NTRS 18 NTRS 110 NRKS 2 11 10 NTRS 15 NTRS 16 NTRS 110 10 NTRS 15 NTRS 16 NTRS 17 11 NTRS 12 NTRS 16 NTRS 17 11 NTRS 12 NTRS 10 NTRS 11 12 OTRS 111 NTRS 10 NTRS 11 13 OTRS 18 OTRS 10 OTRS 11 14 OTRS 15 OTRS 16 OTRS 11 15 OTRS 11 OTRS 15 16 BDKS 2 13 OTRS 10 OTRS 11 17 BDKS 2 10 BDKS 2 11 18 ME 130 ME 131 ME 132 19 ME 130 ME 131 ME 129 20 ME 124 ME 125 ME 128 21 ME 121 ME 122 ME 123 22 ME 118 ME 122 ME 123 23 ME 115 ME 116 ME 117 24 ME 121 ME 122 ME 123 25 ME 19 ME 110 ME 111 26 ME 16 ME 17 ME 110 27 ME 18 ME 15 28 ME 19 ME 110 ME 15 29 GND GND GND 31 GND GND GND 31 GND GND GND 32 GND GND GND	A B C GND GND GND GND 2 BDKS 2 19 BDKS 2 110 BDKS 2 111 3 BDKS 2 16 BDKS 2 17 BDKS 2 18 4 NRKS 2 111 BDKS 2 14 BDKS 2 15 5 NRKS 2 18 NRKS 2 19 NRKS 2 15 5 NRKS 2 18 NRKS 2 19 NRKS 2 10 NRKS 2 14 NRKS 2 12 NRKS 2 13 NRKS 2 14 NRKS 2 12 NRKS 2 13 NRKS 2 14 NRKS 2 10 NRKS 2 11 NRKS 2 10 NRKS 2 12 NRKS	A B C 1 GND GND GND 2 BDKS 2 29 BDKS 2 210 BDKS 2 211 3 BDKS 2 26 BDKS 2 27 BDKS 2 211 4 NRKS 2 26 BDKS 2 27 BDKS 2 28 4 NRKS 2 28 NRKS 2 24 BDKS 2 25 5 NRKS 2 28 NRKS 2 29 NRKS 2 210 6 NRKS 2 28 NRKS 2 29 NRKS 2 210 7 NRKS 2 25 NRKS 2 26 NRKS 2 27 7 NRKS 2 22 NRKS 2 20 NRKS 2 21 8 NTRS 211 NRKS 2 20 NRKS 2 21 9 NTRS 211 NRKS 2 20 NRKS 2 21 10 NTRS 25 NTRS 26 NTRS 20 NRKS 2 21 11 NTRS 25 NTRS 26 NTRS 27 11 NTRS 27 NTRS 28 NTRS 29 NTRS 210 10 NTRS 25 NTRS 20 NTRS 21 11 NTRS 20 NTRS 21 11 NTRS 20 NTRS 21 12 OTRS 211 NTRS 20 NTRS 21 13 OTRS 21 NTRS 20 NTRS 21 14 OTRS 25 OTRS 20 OTRS 21 15 OTRS 21 OTRS 20 OTRS 21 16 BDKS 2 23 OTRS 20 OTRS 21 17 BDKS 2 0 DTRS 20 OTRS 24 18 ME 230 ME 231 ME 232 19 ME 227 ME 228 ME 229 20 ME 224 ME 228 ME 229 20 ME 224 ME 228 ME 229 21 ME 221 ME 221 ME 222 ME 223 22 ME 218 ME 210 ME 211 26 ME 21 ME 210 ME 211 26 ME 29 ME 210 ME 211 26 ME 29 ME 210 ME 21 27 ME 23 ME 210 ME 212 28 ME 215 ME 210 ME 211 29 GND GND GND 31 GND GND GND GND GND GND	A B 1 GND GND GND G 2 BDKS 2 29 BDKS 2 210 BDKS 3 BDKS 2 26 BDKS 2 27 BDK; 4 NRKS 2 211 BDKS 2 24 BDK; 5 NRKS 2 28 NRKS 2 29 NRKS 6 NRKS 2 25 NRKS 2 26 NRK; 7 NRKS 2 25 NRKS 2 26 NRK; 7 NRKS 2 21 NRKS 2 26 NRK; 8 NTRS 211 NRKS 2 20 NRK, 9 NTRS 211 NRKS 2 20 NRK, 10 NTRS 25 NTRS 29 NTR 10 NTRS 25 NTRS 29 NTR 11 NTRS 25 NTRS 29 NTR 11 NTRS 27 NTRS 20 NTF, 11 NTRS 27 NTRS 20 NTF, 11 OTRS 21 NTRS 20 NTF, 11 OTRS 21 NTRS 20 NTF, 11 NTRS 20 NTF, 12 OTRS 21 NTRS 20 NTF, 14 OTRS 21 NTRS 20 OTR, 15 OTRS 21 NTRS 20 OTR, 16 BDKS 2 20 OTRS 20 OTF, 16 BDKS 2 20 BDKS 2 21 BDK, 17 BDKS 2 20 BDKS 2 21 BDK, 18 ME 230 ME 231 ME 19 ME 227 ME 228 ME 20 ME 224 ME 225 ME 21 ME 215 ME 219 ME 22 ME 216 ME 210 ME 23 ME 215 ME 210 ME 24 ME 210 ME 224 ME 25 ME 215 ME 210 ME 26 ME 26 ME 27 ME 27 ME 28 ME 210 ME 28 ME 210 ME 211 ME 26 ME 26 ME 27 ME 27 ME 23 ME 211 ME 28 ME 210 ME 211 ME 29 GND GND G 31 GND GND G
5 ME1 KEY	ME1 MIX	ME2 KEY	ME2 MIX
, C D		F G	3 - 9 0 H

(13) MI X – 8	(14) KPC-5	(15) MI X – 8	
B	A B C D D	A B C D D	
B C D 18	A B C D D	A B C D 1 2 2 3 PVW 28 PVW 29 4 PVW 26 PVW 27 5 PVW 26 PVW 27 5 PVW 20 PVW 21 PVW 22 PVW 23 6 PVW 23 6 PVW 27 5 PVW 20 PVW 21 PVW 22 PVW 23 6 PVW 27 5 PVW 20 PVW 21 PVW 22 PVW 23 6 PVW 27 5 PVW 20 PVW 21 PVW 22 PVW 23 6 PVW 27 5 PVW 28 7 PVW 28 PVW 28 PVW 28 PVW 28 PVW 28 PVW 28 PVW 29 P	
B C GND GND GND 2 19 BDKS 2 110 BDKS 2 111 BDKS 2 116 BDKS 2 117 BDKS 2 18 F111 BDKS 2 14 BDKS 2 15 BR F1 BDKS 2 19 NRKS 2 19 NRKS 2 19 NRKS 2 19 NRKS 2 110 NRKS 2 19 NRKS 2 110 NRKS 2 10 NRKS 2 110 NRKS 2 10 NRKS 2 11 ST F1 NRKS 2 10 NRKS 2 11 NRKS 11 N	A B C 1 GND GND GND 2 BDKS 2 29 BDKS 2 210 BDKS 2 211 3 BDKS 2 26 BDKS 2 27 BDKS 2 28 4 NRKS 2 211 BDKS 2 24 BDKS 2 25 5 NRKS 2 28 NRKS 2 29 NRKS 2 210 6 NRKS 2 25 NRKS 2 29 NRKS 2 210 7 NRKS 2 25 NRKS 2 23 NRKS 2 27 7 NRKS 2 22 NRKS 2 23 NRKS 2 21 8 NTHS 211 NRKS 2 20 NRKS 2 21 10 NTRS 25 NTRS 2 3 NTRS 2 10 11 NTRS 25 NTRS 26 NTRS 2 10 12 OTRS 211 NRS 2 20 NRKS 2 21 13 OTRS 28 NTRS 20 NTRS 27 11 NTRS 22 NTRS 26 NTRS 27 11 NTRS 27 11 NTRS 27 12 OTRS 211 NTRS 20 NTRS 21 13 OTRS 28 OTRS 20 OTRS 21 14 OTRS 25 OTRS 26 OTRS 21 15 OTRS 27 16 BDKS 2 23 OTRS 20 OTRS 21 17 BDKS 2 20 BDKS 2 21 BDKS 2 22 18 ME 230 ME 231 ME 232 19 ME 227 ME 228 ME 232 21 ME 224 ME 225 ME 228 22 ME 218 ME 219 ME 220 23 ME 215 ME 216 ME 217 24 ME 221 ME 221 ME 222 26 ME 224 ME 225 27 ME 218 ME 210 ME 211 26 ME 29 ME 211 ME 22 27 ME 218 ME 210 ME 211 26 ME 29 ME 211 ME 220 27 ME 29 ME 211 ME 220 28 ME 215 ME 210 ME 211 26 ME 29 ME 211 ME 225 27 ME 218 ME 210 ME 211 26 ME 29 ME 211 ME 220 27 ME 28 OTRS 29 OTRS 20 28 ME 215 ME 216 ME 217 26 ME 29 ME 211 ME 222 27 ME 23 ME 215 ME 216 ME 217 28 ME 216 ME 27 ME 28 29 GND GND GND 30 GND GND GND 31 GND GND GND 32 GND GND GND 33 GND GND GND 34 GND GND GND	31 GND GND GND BOAI DVS	3-482 BOARD (2/8) RD NO.1-646-031-11 -6000/6000C
ME1 MIX	ME2 KEY	ME 2 MI X 3-90	

MB-482(3/8);MOTHER BOARD				
(1B) DSK-9	(17) OUT – 3	(18) CRK-5(D2/DVS-6000) CRK-4(D1/DVS-6000C)	(19) ADC-5(D2/DVS-6000) CRK-4(D1/DVS-6000C)	1
A B C D 1 +5V(A) RDATA: L RDATA: H -5V 2 +5V(A) WDATA: L WDATA: H -5V 3 +5V(A) ADD: L ADD: H FUSE - 4 +5V(A) CKD: L CKD: H CKX 5 FUSE + RST LALT VD 6 THERMO S C HBLK HZ 7 (SLTAD 1) GND(SLTAD 2) (SLTAD 3) (SLTAD 4)	A B C D 1 +5V(A) RDATA: L RDATA: H -5V 2 +5V(A) WDATA: L WDATA: H -5V 3 +5V(A) ADD: L ADD: H FUSE - 4 +5V(A) CKD: L CKD: H CKX 5 FUSE + RST LALT VD 6 THERMO SC HBLK HZ 7 (SLTAD 1) (SLTAD 2) GND(SLTAD 3) (SLTAD 4) 8 (SLTAD 0) CF VBLK OE	A B C D 1 +5V(B) RDATA: L RDATA: H -5V 2 +5V(B) WDATA: L WDATA: H -5V 3 +5V(B) ADD: L ADD: H FUSE - 4 +5V(B) CKD: L CKD: H CKX 5 FUSE + RST LALT VD 6 THERMO SC HBLK HZ 7 GND(SLTAD 1) GND(SLTAD 2) (SLTAD 3) (SLTAD 4) 8 GND(SLTAD 0) CF VBLK OE	A B C D 1 +5V(B) RDATA: L RDATA: H -5V 2 +5V(B) WDATA: L WDATA: H -5V 3 +5V(B) ADD: L ADD: H FUSE - 4 +5V(B) CKD: L CKD: H CKX 5 FUSE + RST LALT VD 6 THERMO SC HBLK HZ 7 GND(SLTAD 1) GND(SLTAD 2) (SLTAD 3) (SLTAD 4) 8 (SLTAD 0) CF VBLK OE	
8 (SLTAD 0) CF VBLK OE 9 GND GND GND CK12(13.5 M) 10 GND GND GND CK4(27.0 M) 11 12 CK4(27.0 M) CK4(27.0 M) 18 KYSR DS KYSR DS KYSR DS KYSR DS 16 KYSR DS KYSR DS KYSR DS KYSR DS KYSR DS 18 KYSR DS	9 GND GND GND CK12(13.5 M) 10 GND GND GND CK4(27.0 M) 11 AUX1 8 AUX1 9 12 AUX1 4 AUX1 5 AUX1 6 AUX1 7 13 AUX1 0 AUX1 1 AUX1 2 AUX1 3 14 AUX4 6 AUX4 7 AUX4 8 AUX4 9 15 AUX4 2 AUX4 3 AUX4 4 AUX4 5 16 PVW 8 PVW 9 AUX4 0 AUX4 1 17 PVW 4 PVW 5 PVW 6 PVW 7 10 PVW 6 PVW 7 PVW 6 PVW 7 10 PVW 6 PVW 7 PVW 6 PVW 7 11 AUX4 1 PVW 6 PVW 7 PVW 6 PVW 7 12 AUX4 1 AUX4 1 PVW 6 PVW 7 13 AUX4 1 PVW 6 PVW 7 PVW 6 PVW 7 14 AUX4 1 PVW 6 PVW 7 PVW 6 PVW 7 15 AUX4 1 PVW 6 PVW 7 PVW 6 PVW 7 16 PVW 6 PVW 7 PVW 6 PVW 7 PVW 6 PVW 7 17 PVW 6 PVW 7 PVW 6 PVW 7 PVW 7 18 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 19 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 6 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 7 PVW 7 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 7 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 7 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 7 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 7 PVW 7 PVW 7 PVW 7 PVW 7 PVW 7 10 AUX4 1 PVW 7 PVW 7	8 GND(SLTAD 0) CF VBLK OE 9 GND GND GND CK13(13.5 M) 10 GND GND GND GND CK5(27.0 M) 11 KYSR 2 18 KYSR 2 19 12 KYSR 2 14 KYSR 2 15 KYSR 2 16 KYSR 2 17 13 KYSR 2 10 KYSR 2 11 KYSR 2 12 KYSR 2 13 14 KYSR 1 16 KYSR 1 17 KYSR 1 18 KYSR 1 19 15 KYSR 1 12 KYSR 1 13 KYSR 1 14 KYSR 1 15 16 KYSR 1 10 KYSR 1 10 KYSR 1 11 17	9 GND GND GND CK13(13.5 M) 10 GND GND GND CK5(27.0 M)	
18 KYSR D0 KYSR D1 KYSR D2 KYSR D3 19 20 21 22 23 24 25 26 PGM 18 PGM 19 27 PGM 14 PGM 15 PGM 16 PGM 17	18 PVW 0 PVW 1 PVW 2 PVW 3 19 AUX2 6 AUX2 7 AUX2 8 AUX2 9 20 AUX2 2 AUX2 3 AUX2 4 AUX2 5 21 AUX3 8 AUX3 9 AUX2 0 AUX2 1 22 AUX3 4 AUX3 5 AUX3 6 AUX3 7 23 AUX3 0 AUX3 1 AUX3 2 AUX3 3 24 PGM 16 PGM 17 PGM 18 PGM 19 25 PGM 12 PGM 13 PGM 14 PGM 15 26 PGM 28 PGM 29 PGM 10 PGM 11 27 PGM 24 PGM 25 PGM 26 PGM 27 28 PGM 20 PGM 21 PGM 22 PGM 23	18 19 KYSR 2 26 KYSR 2 27 KYSR 2 28 KYSR 2 29 20 KYSR 2 22 KYSR 2 23 KYSR 2 24 KYSR 2 25 21 KYSR 1 26 KYSR 1 29 KYSR 2 24 KYSR 2 25 21 KYSR 1 26 KYSR 1 29 KYSR 2 20 KYSR 2 21 22 KYSR 1 24 KYSR 1 25 KYSR 1 26 KYSR 1 27 23 KYSR 1 20 KYSR 1 25 KYSR 1 26 KYSR 1 27 24 BKGD Y8 BKGD Y9 BKGD Y10 BKGD Y11 25 BKGD Y4 BKGD Y9 BKGD Y10 BKGD Y11 26 BKGD Y0 BKGD Y1 BKGD Y2 BKGD Y7 26 BKGD W1 BKGD Y1 BKGD Y2 BKGD Y3 27 BKGD 18 BKGD Y1 BKGD Y2 BKGD Y3 28 BKGD W1 BKGD W1 BKGD W1 BKGD W1 28 BKGD W1 BKGD W1 BKGD W1 BKGD W1 29 BKGD W1 BKGD W1 BKGD W1 BKGD W1 30 BKGD W1 BKGD W1 BKGD W1 BKGD W1 31 GND GND BKGD W1 BKGD W1 BKGD W1 31 GND BKGD W1 BKGD W1 BKGD W1 BKGD W1 31 GND BKGD W1 BKGD W1 BKGD W1 BKGD W1		2
28 PGM 10 PGM 11 PGM 12 PGM 13 29 PGM 26 PGM 27 PGM 28 PGM 29 PGM 22 PGM 23 PGM 24 PGM 25 31 GND GND PGM 20 PGM 21 GND	28 PGM 20 PGM 21 PGM 22 PGM 23 29 PVW 16 PVW 17 PVW 18 PVW 19 30 PVW 12 PVW 13 PVW 14 PVW 15 31 GND GND PVW 10 PVW 11 32 GND GND PVW 10 PVW 11	28 BKGD 14 BKGD 15 BKGD 16 BKGD 17		,
1 FILL D6 FILL D7 FILL D8 FILL D9 2 FILL D2 FILL D3 FILL D4 FILL D5 3 PVW P8 PVW P9 FILL D0 FILL D1 4 PVW P4 PVW P5 PVW P6 PVW P7 5 PVW P0 PVW P1 PVW P2 PVW P3 6 PGM P6 PGM P7 PGM P8 PGM P9 6 PGM P2 PGM P8 PGM P9 7 PGM P2 PGM P3 PGM P4 PGM P5 8 WSLD 112 WSLD 113 PGM P0 PGM P1 9 WSLD 18 WSLD 19 WSLD 110 WSLD 111 10 WSLD 14 WSLD 15 WSLD 17	1	1 BKGD Q0 BKGD Q1 BKGD Q2 BKGD Q3 2 FRGD Y8 FRGD Y9 FRGD Y10 3 FRGD Y4 FRGD Y5 FRGD Y6 FRGD Y71 3 FRGD Y4 FRGD Y5 FRGD Y6 FRGD Y7 4 FRGD Y0 FRGD Y1 FRGD Y2 FRGD Y3 5 FRGD V8 FRGD V9 FRGD V10 FRGD Y1 6 FRGD V4 FRGD V5 FRGD V6 FRGD V7 7 FRGD V0 FRGD V1 FRGD V6 FRGD V7 8 FRGD W8 FRGD W9 FRGD W10 FRGD W1 9 FRGD W4 FRGD W5 FRGD W10 FRGD W11 10 FRGD W4 FRGD W5 FRGD W2 FRGD W1 11 CRK 6 CRK 7 CRK 8 CRK 9	1 BKGD Q0 BKGD Q1 BKGD Q2 BKGD Q3 2 FRGD Y8 FRGD Y9 FRGD Y10 FRGD Y11 3 FRGD Y4 FRGD Y5 FRGD Y6 FRGD Y7 4 FRGD Y0 FRGD Y1 FRGD Y2 FRGD Y3 5 FRGD V8 FRGD Y9 FRGD V10 FRGD V11 6 FRGD V4 FRGD V5 FRGD V6 FRGD V11 7 FRGD V4 FRGD V5 FRGD V6 FRGD V7 7 FRGD V0 FRGD V1 FRGD V2 FRGD V3 8 FRGD U8 FRGD U9 FRGD U10 FRGD U11 9 FRGD U4 FRGD U5 FRGD U10 FRGD U11 10 FRGD U4 FRGD U5 FRGD U2 FRGD U7 110 FRGD U0 FRGD U1 FRGD U2 FRGD U7	
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20 CLFD 2 CLFD 3 CLFD 4 CLFD 1 21 MASK 38 MASK 39 CLFD 0 CLFD 1 23 MASK 34 MASK 35 MASK 36 MASK 37 24 MASK 30 MASK 31 MASK 32 MASK 33 25 25 26 27 28 29	20 AUX6 6 AUX6 7 21 AUX6 4 AUX6 5 22 AUX6 2 AUX6 3 23 PVW OUT 8 PVW OUT 9 AUX6 0 AUX6 1 24 PVW OUT 6 PVW OUT 7 MY IN 18 MY IN 19 25 PVW OUT 4 PVW OUT 5 MY IN 16 MY IN 17 26 PVW OUT 2 PVW OUT 3 MY IN 14 MY IN 15 27 PVW OUT 0 PVW OUT 1 MY IN 12 MY IN 13 28 MY IN 28 MY IN 29 MY IN 10 MY IN 11 29 MY IN 28 MY IN 29 MY IN 20 MY IN 12 30 MY IN 20 MY IN 21 MY IN 22 MY IN 27 30 MY IN 20 MY IN 21 MY IN 22 MY IN 23	21 CKMSK 16 CKMSK 17 CKMSK 18 CKMSK 19 22 CKMSK 12 CKMSK 13 CKMSK 14 CKMSK 15 23 CKMSK 10 CKMSK 11 24 25 26 27 28 29	17	
30 31 GND GND 32 GND GND	A B C	30 31 GND GND 32 GND GND	30 31 GND GND 32 GND GND	
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21	21 GND GND GND 23 GND GND GND 24 GND GND GND 25 GND GND GND 25 GND GND GND 26 GND GND GND 27 GND GND GND 27 GND GND GND 28 GND GND GND 29 GND GND GND 30 GND GND GND 31 GND GND GND 31 GND GND GND 31 GND GND GND 32 GND MEI PGM GND 32 GND GND GND	2.2 [2.3] [2.4] [2.5] [2.6] [2.7] [2.8] [2.9] [3.0]	22 GND B-Y/B 2 GND 23 GND GND GND 24 GND GND GND 25 GND GND GND 26 GND GND 27 GND GND 28 GND GND 28 GND GND 28 GND GND 29 GND GND	5
9	1 O	1 1	1 2 SND GND GND BOARD NO.1-	2 BOARD (3/8)
PGM/ PST	OUTPUT	CHROMA KEY 1	CHROMA KEY 2	
A B	C D	- 9 1 E F	G	3 – 9 1 H

MB-482(4/8); MOTHER BOARD

A B C D A B C	(1 A) MAT-4	(1 C) PT-3/ADC-9(D2/DVS-6000) XPT-3 (D1/DVS-6000C) XPT-3 (D1/DVS-6000C)	
1 AUX6 2 AUX6 3 AUX6 4 AUX6 5	+ 5V(B) RDATA : L RDATA : H -5V +5V(B) WDATA : L WDATA : H -5V +5V(B) ADD : L ADD : H FUSE - +5V(B) CKD : L CKD : H CKX -5V(B) CKD : L CKD : L CKD : L CKD : L CKX -5V(B) CKD : L CKD :	A B C D +5V(B)	
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A B C A B C A B C A B C C A B C C C A B C C C C C C C C C C C C C C C C C C	A B C GND GND GND GND LL 2 19 BKGD B 10 BKGD B 11 LL 2 16 FILL 2 17 FILL 2 18 LL 2 13 FILL 2 14 FILL 2 15 LL 2 10 FILL 2 14 FILL 2 15 LL 2 10 FILL 2 14 FILL 2 12 LL 1 17 FILL 1 18 FILL 1 19 LL 1 14 FILL 1 15 FILL 1 10 LL 1 11 FILL 1 12 FILL 1 13 MASK 38 MASK 36 MASK 37 MASK 38 MASK 36 MASK 37 MASK 38 MASK 39 MASK 37 MASK 38 MASK 39 MASK 37 MASK 30 MASK 31 MASK 39 MASK 31 MASK 39 MASK 31 MASK 29 MASK 30 MASK 31 MASK 14 MASK 15 MASK 18 MASK 17 MASK 18 MASK 19 MASK 11 MASK 15 MASK 19 MASK 11 MASK 15 MASK 19 MASK 14 MASK 15 MASK 19 MASK 14 MASK 15 MASK 19 MASK 14 MASK 15 MASK 19 MASK 11 MASK 12 MASK 19 MASK 11 MA	1 SHD GND GND	/8)
MATTE MEMORY PRI I NPUT 1 PRI I NPUT 2 3-92 A B C D E F G H	3 – 9 2	3 – 9 2	

(16)1F) XPT-3/ADC-9(D2/DVS-6000) XPT-3 (D1/DVS-6000C) XPT-3/ADC-9(D2/DVS-6000) XPT-3 (D1/DVS-6000C) AUX5 8 AUX5 0 AUX6 0 AUX6 6 AUX6 2 FILL D8 FILL D4 FILL D0 GND INPUT 3 8
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GND INPUT 48 INPUT GND INPUT 3 6 GND INPUT GND INPUT 3 5 GND INPUT 45 GND
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INPUT 43
GND
INPUT 42
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INPUT 42 INPUT 3 4 GND
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INPUT 3 2
GND
INPUT 3 1 17 18 PRI INPUT PRI INPUT 3 – 9 3

MB-482(5/8); MOTHER BOARD

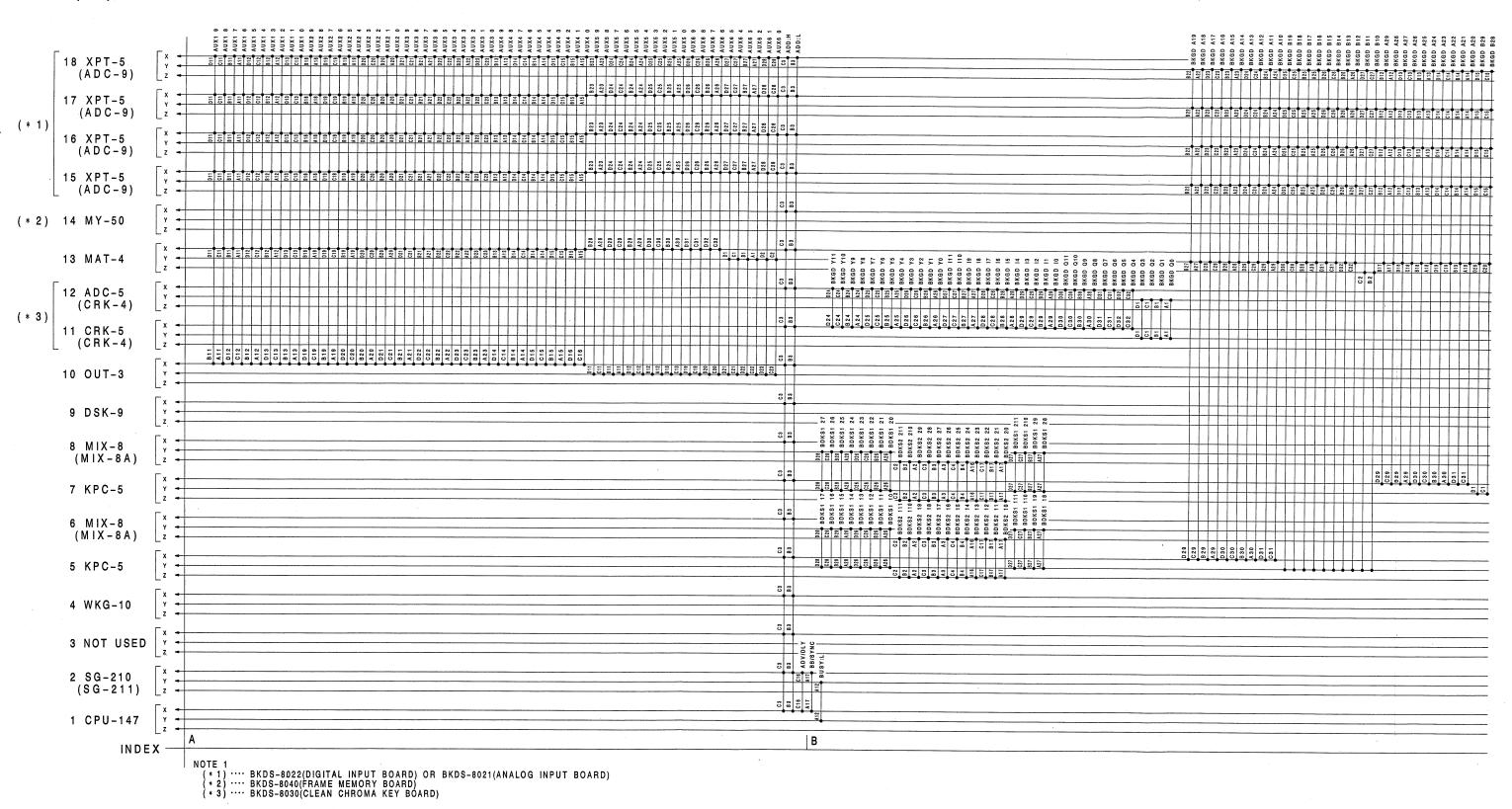
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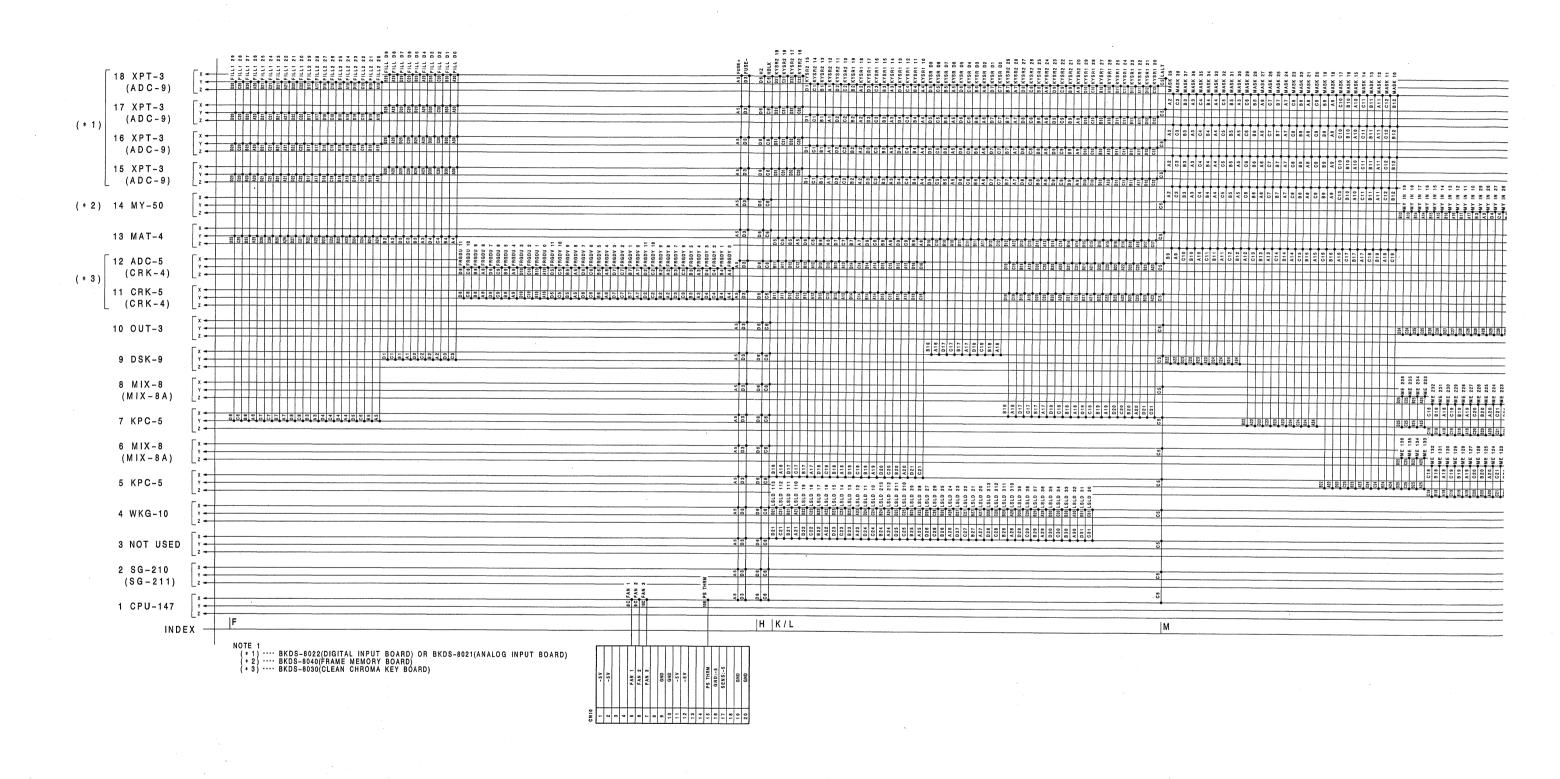
3-94 A B C D E F G H

1 1 1 1 1 1 1 1 1 1	00 CK 16 CK	0 Pr	030 030	18 XPT-3 Y Z (ADC-9) X Y Y (ADC-9) (ADC-9) (* 1)
112 113 114 115	CCK SK 19 CK 14 B4 CK 14 CK SK 19 CK 14 CK SK 19 CK 14 CK SK 19 CK	200 200	010 010	16 XPT-3 - z
	M D9	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	CRK 2 CRK	$\begin{bmatrix} x & x \\ x & y \\ x & z \end{bmatrix}$ $\begin{bmatrix} 13 & MAT-4 \\ x & y \\ x & z \end{bmatrix}$ $\begin{bmatrix} 12 & ADC-5 \\ CRK-4 \end{bmatrix}$ $\begin{bmatrix} (*3) \\ (*3) \end{bmatrix}$
B8 B	13.58 0.0 0.	1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 CRK-5 - z 11 CRK-5 - x (CRK-4) 1 - x y 10 OUT-3 - x y 9 DSK-9
A 2 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CK10 13.5M D9 CK11 13.5M D9 CK11 CK10 CK	19 2 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 8 2 8 8 8 7 2 8 8 8 8		- z
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MB-482 BOARD (6 / 8)
BOARD NO.1-646-031-11
DVS-6000/6000C

3 - 9 4

MB-482(7/8); MOTHER BOARD



3 – 9 5

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MB-482(7/8)

18 XPT-3 (ADC-9) 17 XPT-3 (ADC-9) 16 XPT-3 (ADC-9) 15 XPT-3 (ADC-9) 14 MY-50 (*2) 13 MAT-4 12 ADC-5 (CRK-4) (* 3) →x] 11 CRK-5 (CRK-4) 10 OUT-3 9 DSK-9 8 MIX-8 (MIX-8A) 7 KPC-5 (MIX-8A) 5 KPC-5 4 WKG-10 3 NOT USED 2 SG-210 (SG-211) 1 CPU-147 |H |K/L - INDEX

MB-482 BOARD (7/8)
BOARD NO.1-646-031-11
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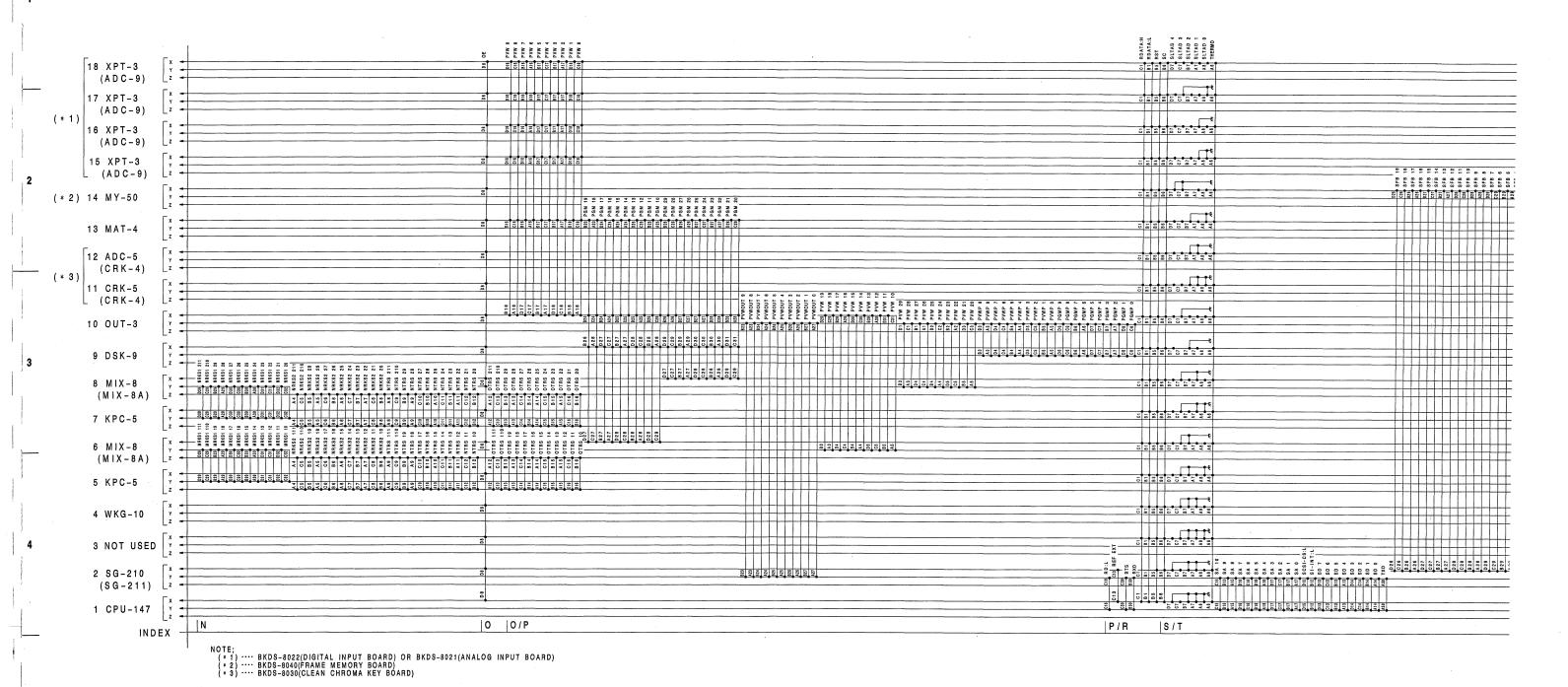
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MB-482(8/8); MOTHER BOARD



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10 10 10 10 10 10 10 10		x y 10 OUT-3
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		(MIX-8A
		zx x 6 MIX-8 z (MIX-8 A
		x x x z 5 KPC-5
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100 100 100 100 100 100 100 100 100 100	N	× 2 SG-210
S		(SG-21) × 1 CPU-14
P/R S/T	V/W + 5 V/-5 V	INDEX

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BOARD NO.1-646-031-11
DVS-6000/6000C

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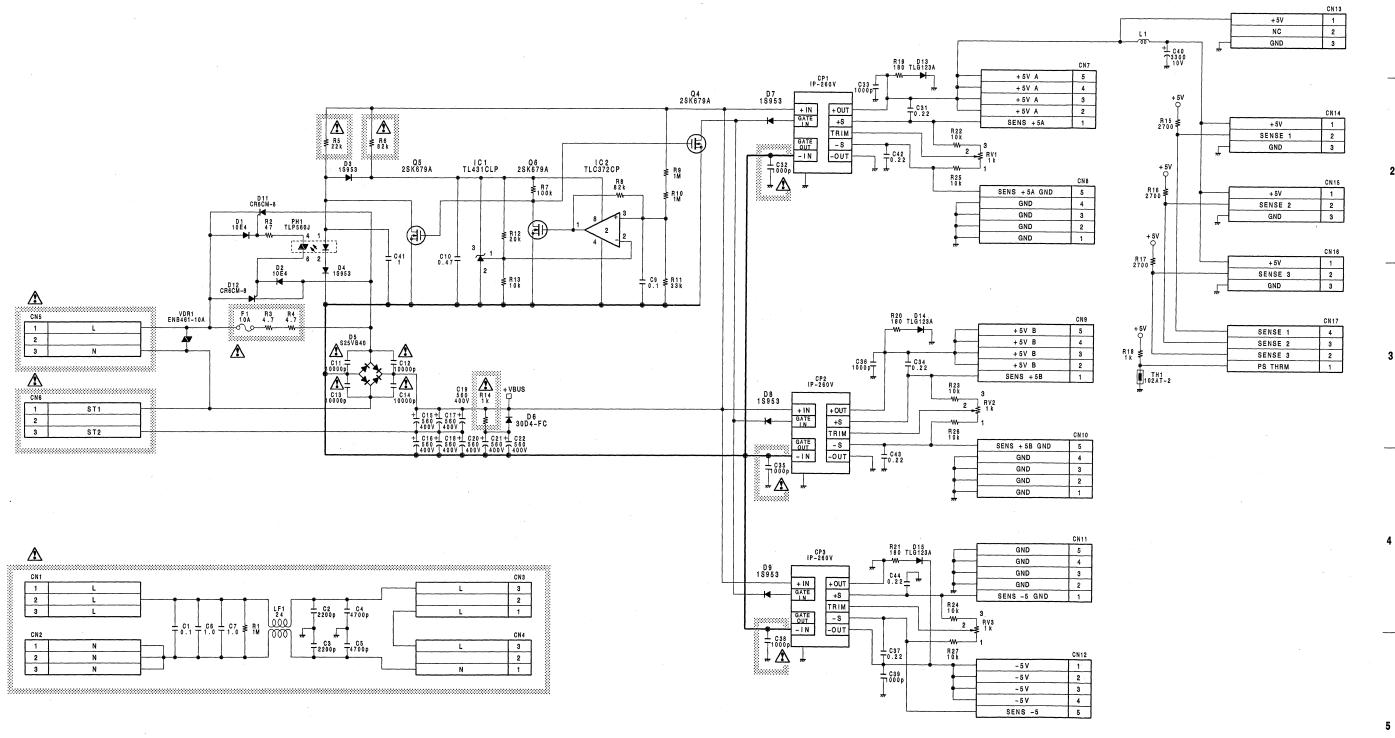
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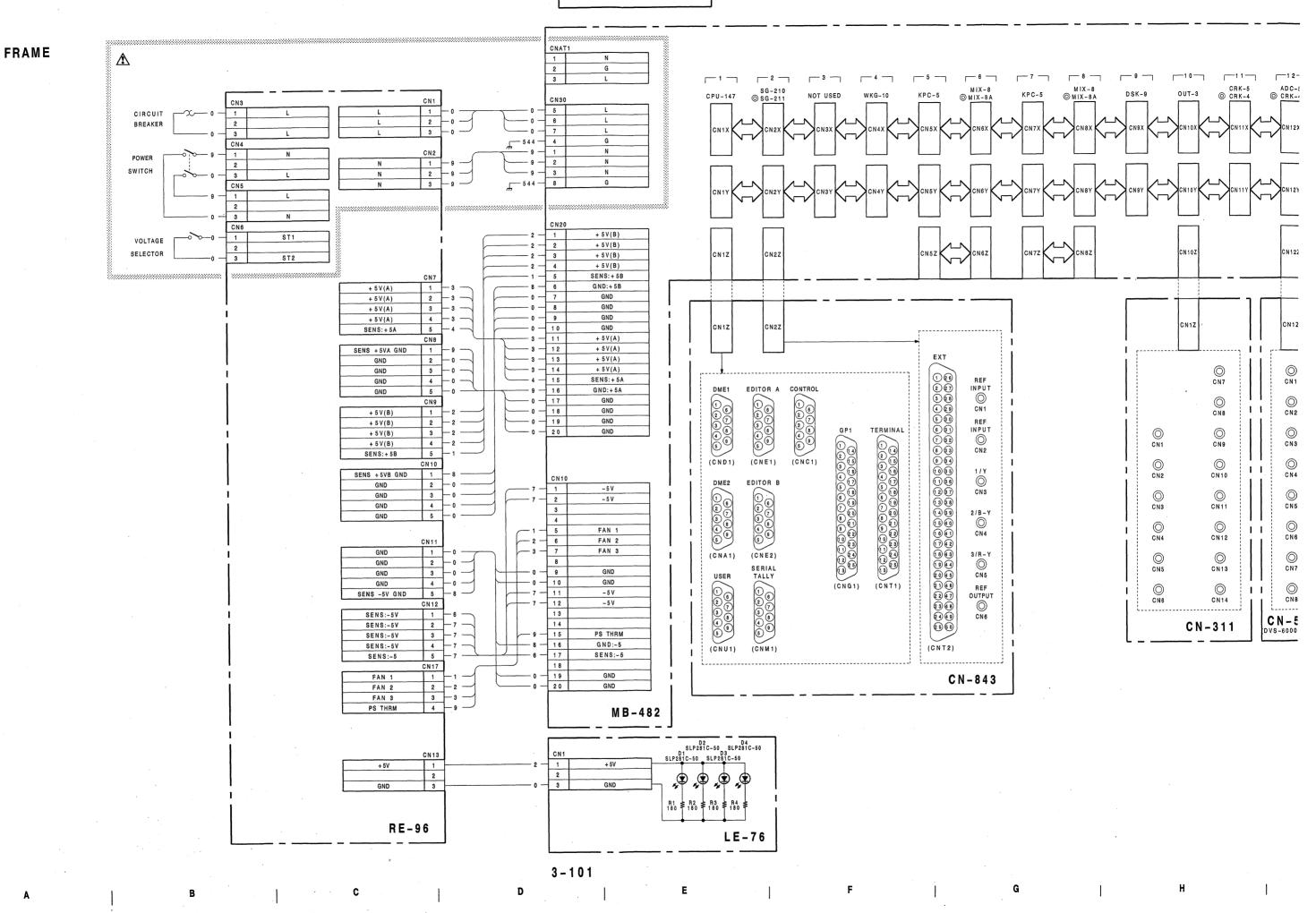
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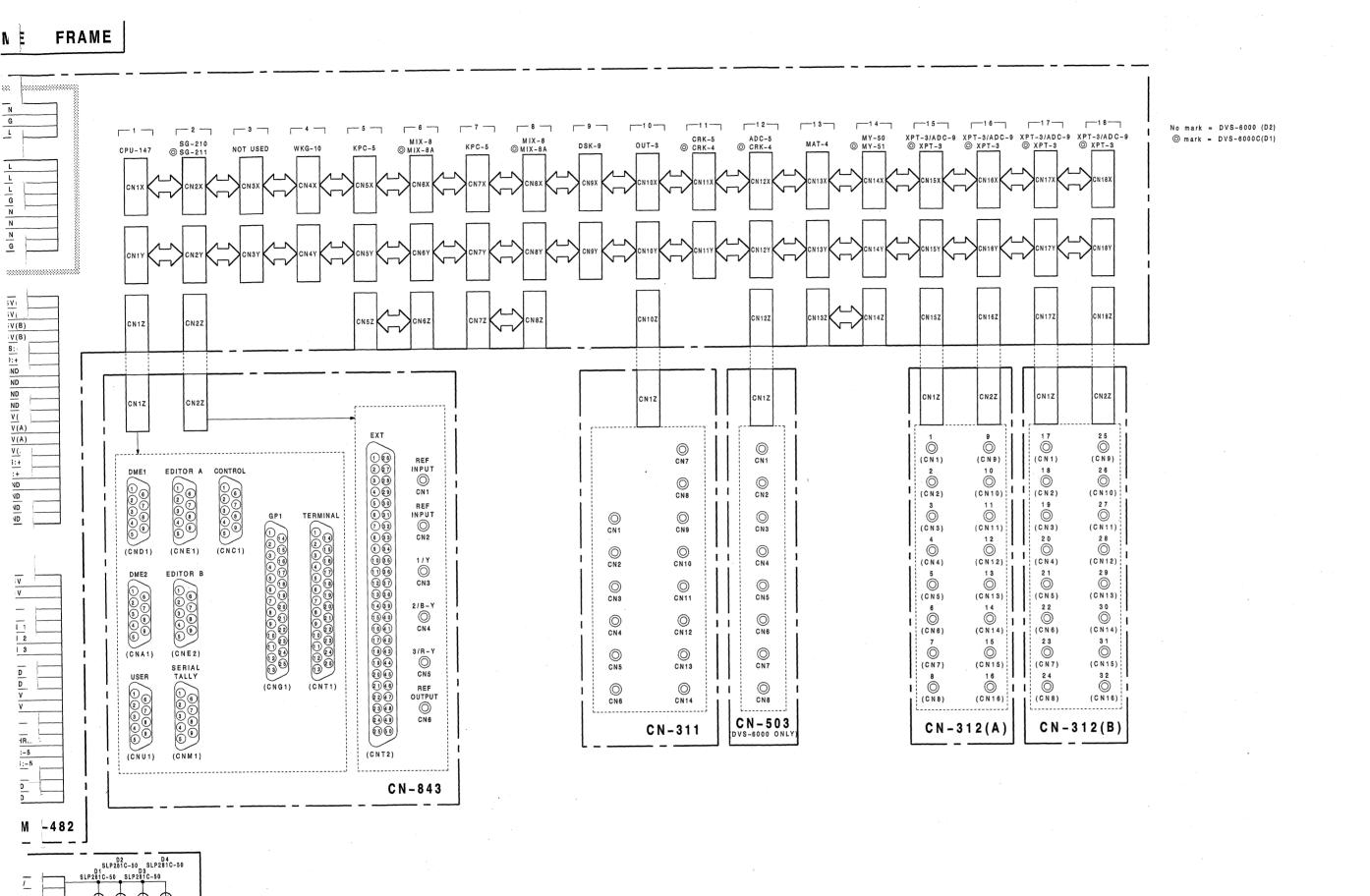
RE-96; POWER SUPPLY AC-DC BOARD



RE-96 BOARD BOARD NO.1-646-847-11 DVS-6000/6000C

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R1 \$ R2 \$ R3 \$ R4 180 \$ 180 \$ 180 FRAME
DVS-6000/6000C

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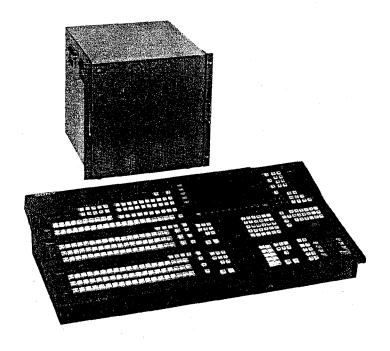
SONY

DIGITAL VIDEO SWITCHER

DVS-6000/6000C

SWITCHER CONTROL PANEL

BKDS-6010



BKDS-6050 BKDS-6060 BKDS-6061 BKDS-6062 BKDS-6063 BKDS-6064 BKDS-6070 BKDS-6071

BKDS-6072 BKDS-6090 BKDS-8022

INSTALLATION AND MAINTENANCE MANUAL Part 2 1st Edition Serial No. 10001 and Higher

For customers in the U.S.A.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC rules.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

For the customers in the U.S.A.

Changing the voltage selector may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in radio interference regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A, pour bruits radioélectriques. Tel que spécifiér dans le reglement sur le brouillage radioélectrique.

Bescheinigung des Herstellers

Hiermit wird bescheinigt, daß die Digital-Video-Schalteinheit DVS-6000C in Übereinstimmung mit den Bestimmungen der BMPT-Amtsblatt Vfg 243/1991 und Vfg 46/1992 funkenstört ist. Der vorschriftsmäßige Betrieb mancher Geräte (z.B.Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung. Dem Bundesamt für Zulassungen in der Telekommunikation wurde das inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestmmungen eingeräumt.

Sony Deutschland GmbH Hugo Eckener Str 20 D-5000 Köin 30

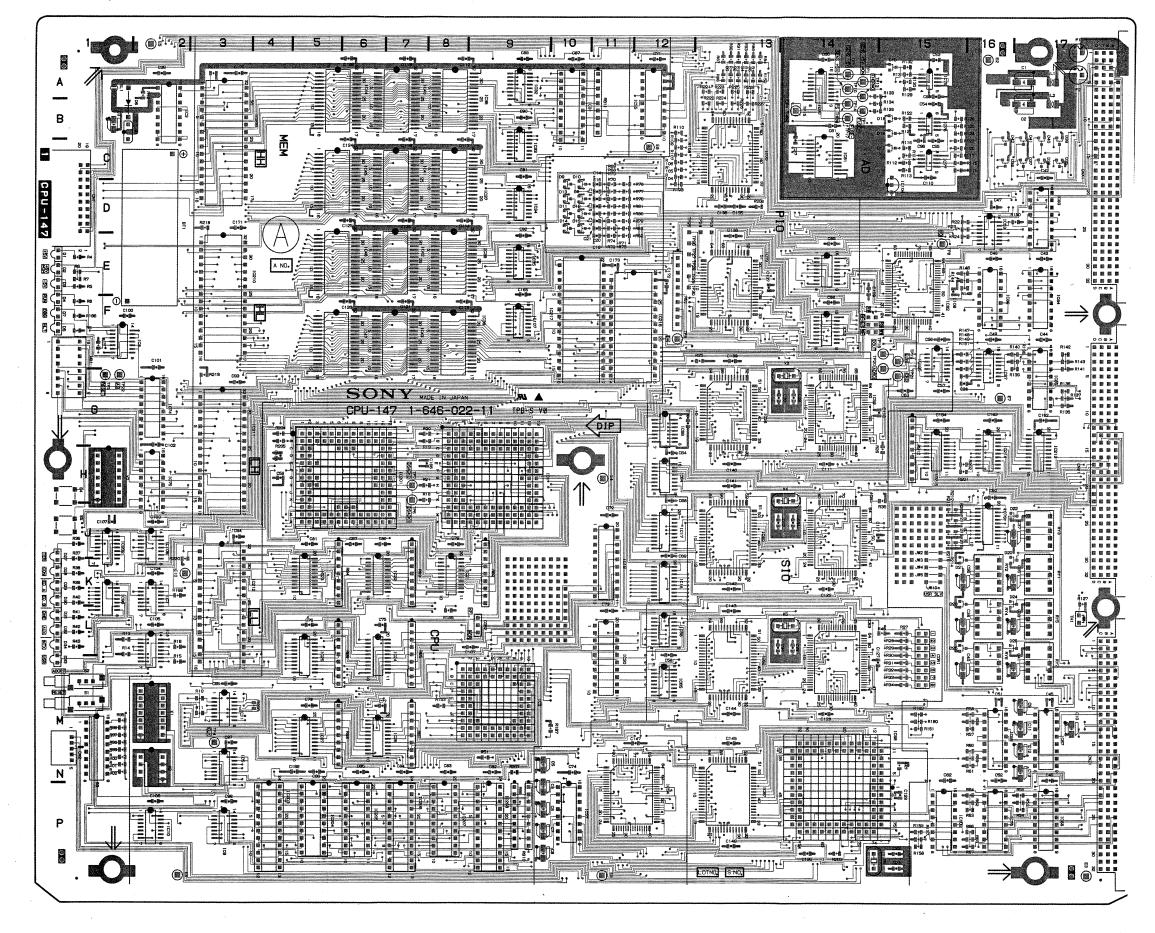
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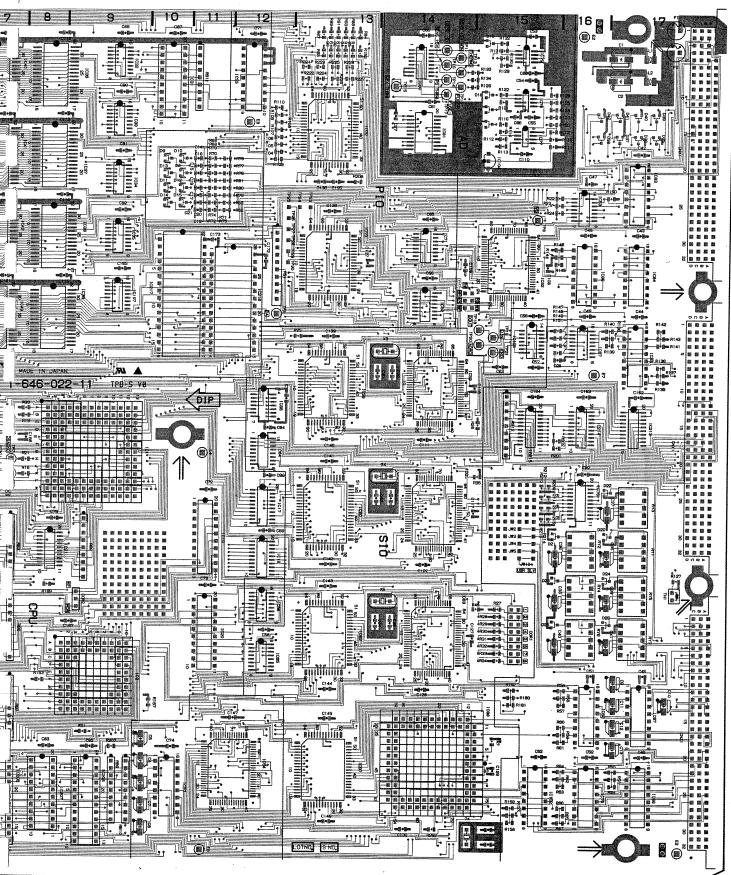
Gemäß der Amtsblätter des BMPT Nm. 61/1991 und 6/ 1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengestellte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß.

SECTION 4 BOARD LAYOUTS

	Board	Function	Pag
В	BD-22(BKDS-6071)	Key Border Generator Board ······	4 - 2
С	CN-311	Output Connector Board	4 - 3
	CN-312	Primary Input Connector Board ·····	
	CN-503	Chroma Key Input Connector Board:DVS-6000 ONLY	
	CN-843	Control Connector Board	
	CPU-147	CPU Board ····	
D	DA-71(BKDS-6061)	Analog Edit PVW/REF Output Board:DVS-6000 ONLY	4 – 1
	DA-72(BKDS-6062)	Analog Edit PVW/REF Output Board:DVS-6000C ONLY	4 – 1
	DA-73(BKDS-6064)	Analog Output Board:DVS-6000 ONLY	
	DSK-9	DSK Board ·····	
K	KPC-5	Key Processor Board·····	4 - 2
L	LE-118	LED Board ·····	4 – 9
	L E - 7 6	Power LED Board·····	4 – 4
0	OUT-3	Output Processor Board ······	4 - 2
R	RE-96	Power Supply AC-DC Board	4 - 4
S	SD-30(BKDS-6060)	Digital Edit PVW/REF Output Board	4 – 1
-	SD-31(BKDS-6063)	Digital Edit PVW/REF Output Board	4 - 3
	SG-210	D-2 SYNC Generator Board:DVS-6000 ONLY	4 – 4
	SG-211	D-1 SYNC Generator Board:DVS-6000C ONLY	4 - 6
М	M A T – 4	Matte Generator Board·····	4 - 3 2
	MB-482	Mother Board ·····	4 - 42
	M I X - 8	Mixer Board ·····	4 - 2
	MT-90(BKDS-6072)	BKGD Color Mix Generator Board	4 – 3 5
w	WKG-10	Wipe Generator Board ·····	4 – 1 6
	W P-37(BKDS-6070)	Enhanced Wipe Generator Board ·····	4 – 18
Х	XPT-3(BKDS-8022)	Digital Input Board ·····	4 – 3 6

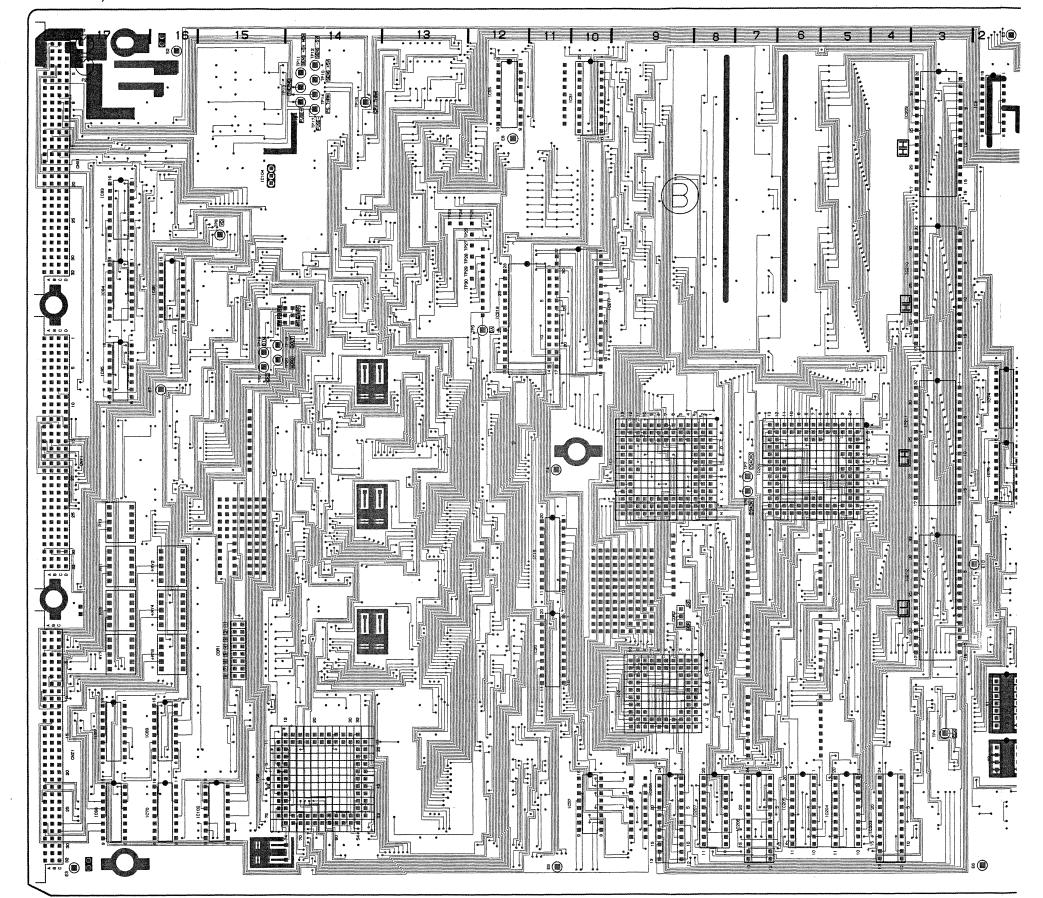
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CNI1	H - 9	E 4	H-11	IC82	F-15	TP11	A - 1
CN12	M - 9	E 5	A - 2	IC83	D-17	TP12	A - 1
C N I 1 9	K-11.	E 6	P - 2	IC84	F-17	TP13	A – 1
C N 12 0	M – 1 1	E 7	G – 16	IC85	G – 17	TP14	B – 1
C N I 3 1	B – 1 0	E 8	C – 12	1086	F-16	TP15	B – 1
C N 198	M – 15	E 9	P-11	IC87	G – 16	TP16	B - 1
CN1201	H – 7	E 1 0	K – 2	IC96	K – 1	TP17	B – 1
CN1203	P - 4			IC97	P-13	TP18	F - 1
CN1204 CN1205	P – 5 P – 6	F 1 F 2	A - 17	IC98	M – 15	TP19	F-1 F-1
CN1205	P - 0 P - 7	Γ 2	A – 17	IC102 IC104	P – 15 D – 15	T P 2 0 T P 2 1	G - 1
CN1207	P - 8	1 C 2	M – 9	IC105	F - 15	TP22	G - 1
CN1208	P - 9	I C 3	B - 2	IC106	J - 6	TP23	D - 1
CN1209	B – 4	I C 4	L - 2	IC107	F – 2	TP24	D – 1
CN1210	E-4	I C 5	N - 3	IC201	H – 7	TP25	D - 1
CN1211	G – 4	I C 7	K – 2	IC202	J – 1	TP26	E – 1
CN1212	K – 3	I C 8	F - 2	IC203	P – 4	TP27	E - 1
CN1216	F – 12	I C 9	P – 3	IC204	P – 5	T P 2 8	E – 1
CN1217	F – 10	IC10	P – 2	IC205	P – 6	TP29	E – 1
		IC11	M – 3	IC206	P - 7		
CNX1	C – 17	IC17	J – 1 2	1 C 2 O 7	P - 8	X 1	M - 2
OHV		IC18	K-12	1C208	P - 9	X 2	N - 2
CNY1	H – 17	IC19	K – 11 M – 11	IC209	B – 4	X 3	F – 1 H – 1
0.11.7.1	N 47	1020		IC210	E – 4 G – 4	X 4	
CNZ1	.N – 1 7	I C 2 1 I C 2 2	K – 8 K – 7	IC211	K – 3	X 5 X 6	L – 1 P – 1
CN1	D – 1	1022	K - 5	10212	H – 17	Λ 0	
CN2	N - 1	1 C 2 4	M - 7	IC214	H – 16		
0.1.2	., .	IC 2 5	M - 5	IC 2 1 5	H – 15		
COP2	L - 9	IC 26	M - 7	IC216	F-12		
		IC27	M - 5	IC217	F - 10		
COR1	M - 15	IC31	B - 10				
COR2	L - 9	IC32	A - 9	JW2	J – 15		
		IC33	C - 9	JW3	J – 15		
D 1	E – 1	IC34	D - 9	JW4	K – 15		
D 2	E – 1	IC35	E - 9	JW5	K – 15		
D 3	E - 1	IC36	B – 9	JW 10	K – 15		
D 4	F – 1	1 C 3 7	D - 9				
D 5	F - 1	IC38	E - 9	ND1	F – 1		
D 6	B - 2	IC39	F - 9	2.	12		
D 7	F-1	1 C 4 0	A - 7	Q1	B – 2		
D 8	D-10	I C 4 1	C-7	5.54			
D.9	D-10	I C 4 2	E - 7	RB1	F-12		
D10	D-10	I C 4 3 I C 4 4	F – 7 A – 6	RB2 RB3	K – 9 K – 7		
D 1 1 D 1 2	D-10 D-10	I C 4 5	C-6	RB4	K-6		
D 1 3	D-10 D-10	IC 4 6	E-6	RB5	M - 7		
D14	D-10	I C 4 7	F - 6	RB6	M - 6		
D15	D - 10	IC52	F-14	RB7	M - 7		
D16	B – 15	IC53	D-16	RB8	M - 6		
D17	C-15	IC54	P-12	RB9	P - 9		
D 18	B-15	IC55	B - 12	RB10	P – 9		
D 1 9	A - 15	IC56	L-12	RB11	B – 11		
D 2 0	J – 16	IC 57	P – 10	RB12	H – 15		
D 2 1	K – 15	IC58	G – 13				
D 2 2	J – 17	IC59	G – 14	RY1	K – 17		
D 2 3	K – 15	IC60	J – 13	RY2	K – 16		
D 2 4	K – 17	IC 61	H – 14	RY3	J – 17		
D 2 5	L - 15	IC62	M – 13	RY4	L-16		
D 2 6	L-17	IC 63	L-14	RY5	L-17		
D 2 7	K – 1	I C 6 4	H – 12 M – 12	RY6	L-16		
D 2 8 D 2 9	K - 1	IC 6 5		RY7	M – 17		
	K – 1 K – 1	I C 6 6 I C 6 7	G – 12 M – 17	S 1	M – 1		
D30 D31	L-1	1C68	W - 17 P - 17	S 2	M – 1		
D31	L-1	I C 6 9	M - 16	S 3	N - 1		
D32	M – 1	IC70	P - 16	S 4	H – 1		
D34	L - 1	I C 7 1	E-14	S 5	J - 1		
D35	C-17	1 C 7 2	C-13				
D36	C-17	IC73	E-13	TH1	L - 1		
D 3 7	C-17	IC74	G-2				
D38	C-16	IC75	H - 2	TP4	M - 3		,
D 3 9	C – 17	IC76	J-16	TP5	. G – 1		
D 4 0	C – 17	IC77	C-15	TP6	J - 7		
D 4 1	C-17	IC78	B - 15	TP7	H - 7		
D 4 2	C – 16	IC79	A – 15	TP8	E-15		

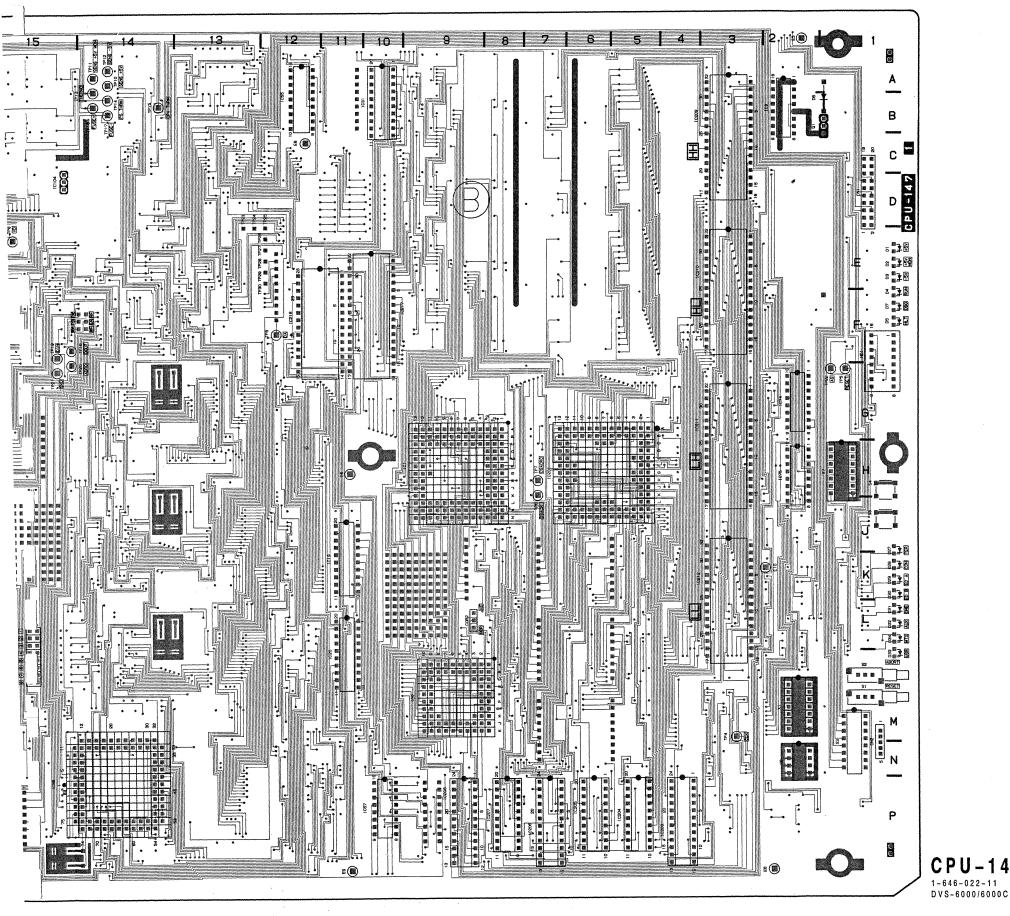




CPU-147-A SIDE-1-646-022-11 DVS-6000/6000C

CPU-147; CPU Board





CPU-147(1-646-022-11) A-16 P-17 H-11 A-2 P-2 G-16 C-12 P-11 TP10 TP11 TP12 E 4 E 5 CN12 M - 9 E 6 E 7 E 8 **TP14** CN120 M - 11 TP16 TP17 E 9 E 1 0 CN198 M - 15 TP18 TP19 K – 2 CN1203 P-4 A - 1 7 A - 1 7 M - 9 B - 2 L - 2 N - 3 K - 2 F - 2 TP20 TP21 CN1204 P-5 F-14 CN1205 P-6 1 C 2 1 C 3 1 C 4 1 C 5 1 C 7 1 C 8 1 C 9 1 C 1 0 T P 2 2 T P 2 3 CN1206 P-7 CN1207 P-8 CN1208 P-9 TP24 TP25 CN1209 B-4 CN1210 E-4 E-12 E-12 CN1211 G-4 CN1212 K-3 IC 2 0 3 P - 4
IC 2 0 4 P - 5
IC 2 0 5 P - 6
IC 2 0 6 P - 7
IC 2 0 7 P - 8
IC 2 0 8 P - 4
IC 2 1 0 E - 4
IC 2 1 1 G - 4
IC 2 1 1 K - 3
IC 2 1 3 H - 1 7
IC 2 1 4 H - 1 6
IC 2 1 5 F - 1 5
IC 2 1 6 F - 1 5 P - 3 P - 2 M - 3 E - 12 E - 12 CN1216 F-12 CN1217 F-10 J - 1 2 K - 1 2 K - 1 1 M - 1 1 X 1 X 2 X 3 X 4 X 5 X 6 IC 17 N – 2 F – 14 CNX1 IC19 CNY1 K - 8 K - 7 K - 5 M - 7 M - 5 M - 7 IC21 L-14 1022 CNZ1 IC23 IC24 IC 2 5 IC 2 6 IC 2 7 CN2 IC216 COP2 L - 9 JW2 COR1 I C 3 2 I C 3 3 A - 9 C - 9 D - 9 E - 9 JW3 JW4 J-15 K-15 L - 9 COR2 1 C 3 4 1 C 3 6 B-9 D-9 E-9 F-9 D 2 JW 10 D 3 ND1 F - 1 D 4 D 5 Q1 B - 2 D 6 D 7 C-7 E-7 F-7 D-10 D-10 D-10 D-10 D-10 D-10 RB2 RB3 RB4 RB5 RB6 A - 6 C-6 E-6 F-6 K-6 M-7 M-6 M-7 M-6 P-9 P-9 D11 D-10 D-10 B-15 C-15 B-15 A-15 RB7 RB8 RB9 D 15 RB10 RB11 RB12 D19 J-16 K-15 J-17 K-15 K-17 L-15 L-17 K-1 K-1 G-13 G-14 J-13 H-14 M-13 L-14 H-12 G-12 M-17 P-17 M-16 P-16 E-14 C-13 D 2 1 RY2 RY3 RY4 RY5 RY6 RY7 K – 16 J – 17 D 2 3 D 2 4 D 2 5 L-16 M-17 D26 D27 D28 D29 D30 D31 D32 D33 D34 S 1 S 2 S 3 S 4 S 5 L-1 C-17 C-17 TH1 L - 1 D35 D36 D37 D38 C-17 C-16 C-17 C-17 TP5 TP6 TP7 TP8 TP9 J-16 C-15 B-15 A-15 B-14 G – 1 J – 7 D 3 9 D 4 0 E-15

CPU-147-B SIDE-

SG-210(1-646-023-11)

F – 4 B – 4

G - 5

F - 1 F - 1 E - 5 B - 2

D - 1 D - 5 C - 2 E - 2

F - 1 F - 1

CNO1 CNO2

CNZ1

F 1 F 2

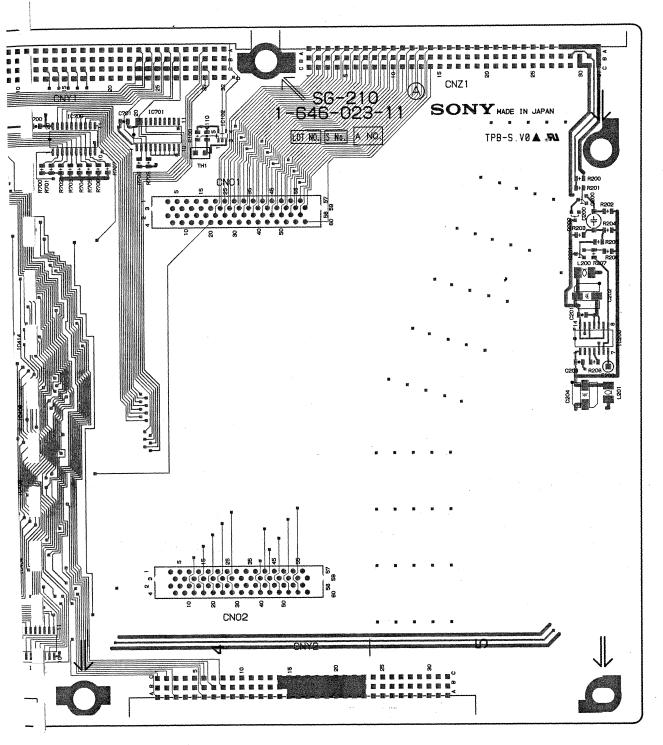
CNX1 G-2 CNX2 A-2

CNY1 F-3 CNY2 A-4

(DVS-6000 ONLY) SG-210;D-2 SYNC Generator Board

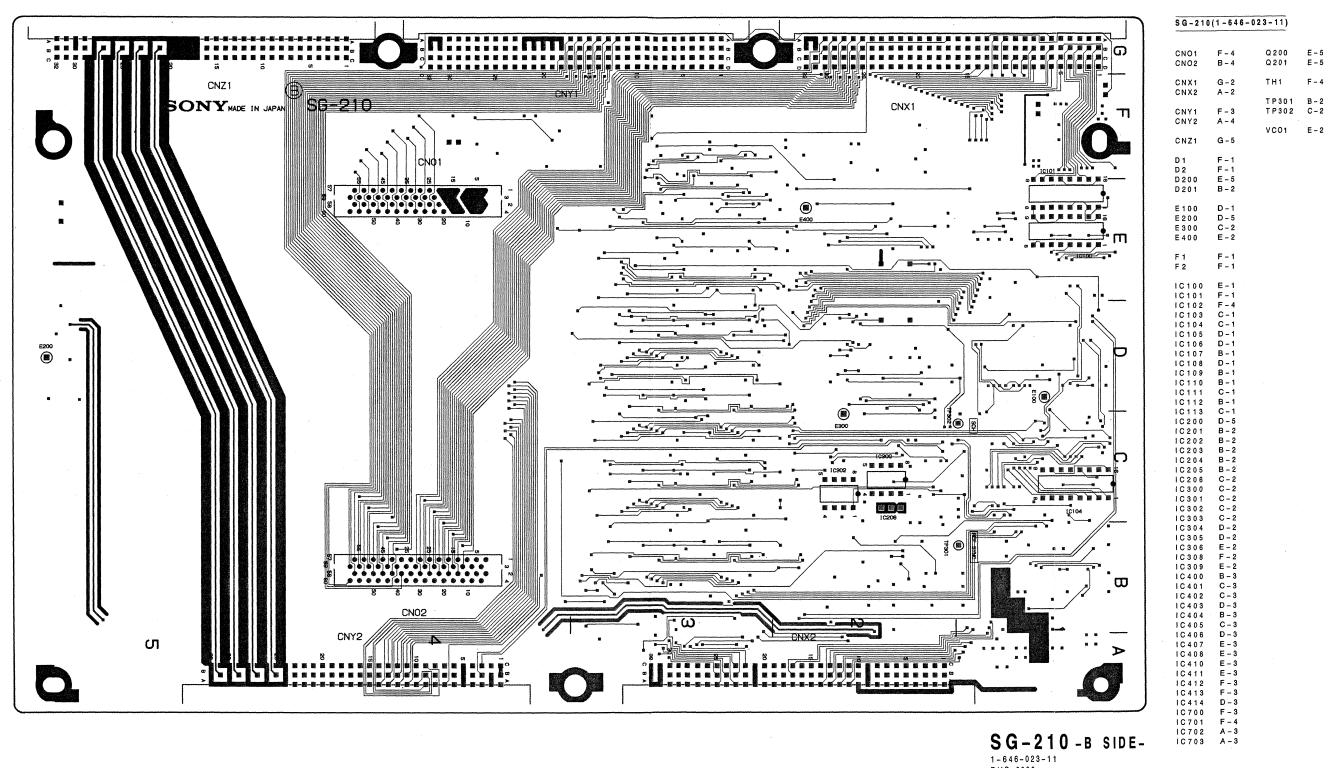
-023-11)		
Q200	E - 5	
Q 2 0 1	E – 5	CNZ1
T H 1	F – 4	- CNY SGH2XO
TP301 TP302		
VCO1	E – 2	TOD C VICA CONTROL TO C VICA C
		LL CNO
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		- 東東東東加田 田田
•		
		TIC109 CNO2

SG-210 -A SIDE-1-646-023-11 DVS-6000



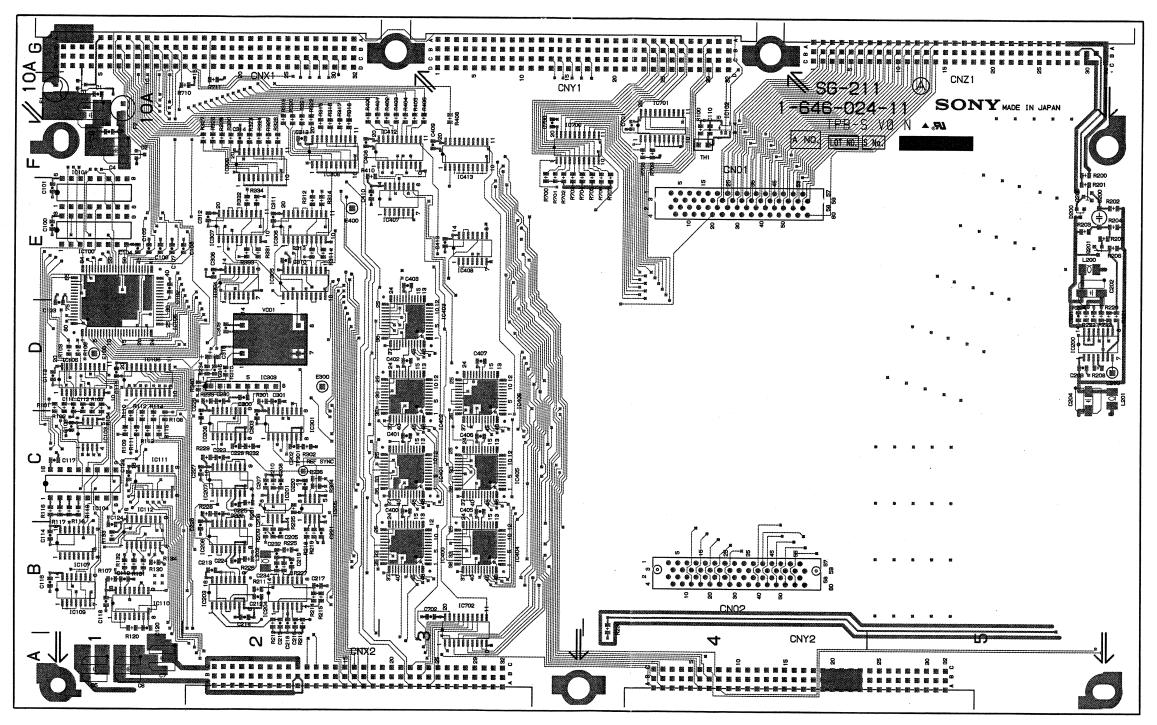
SG-210 -A SIDE-1-646-023-11 DVS-6000

(DVS-6000 ONLY) SG-210;D-2 SYNC Generator Board



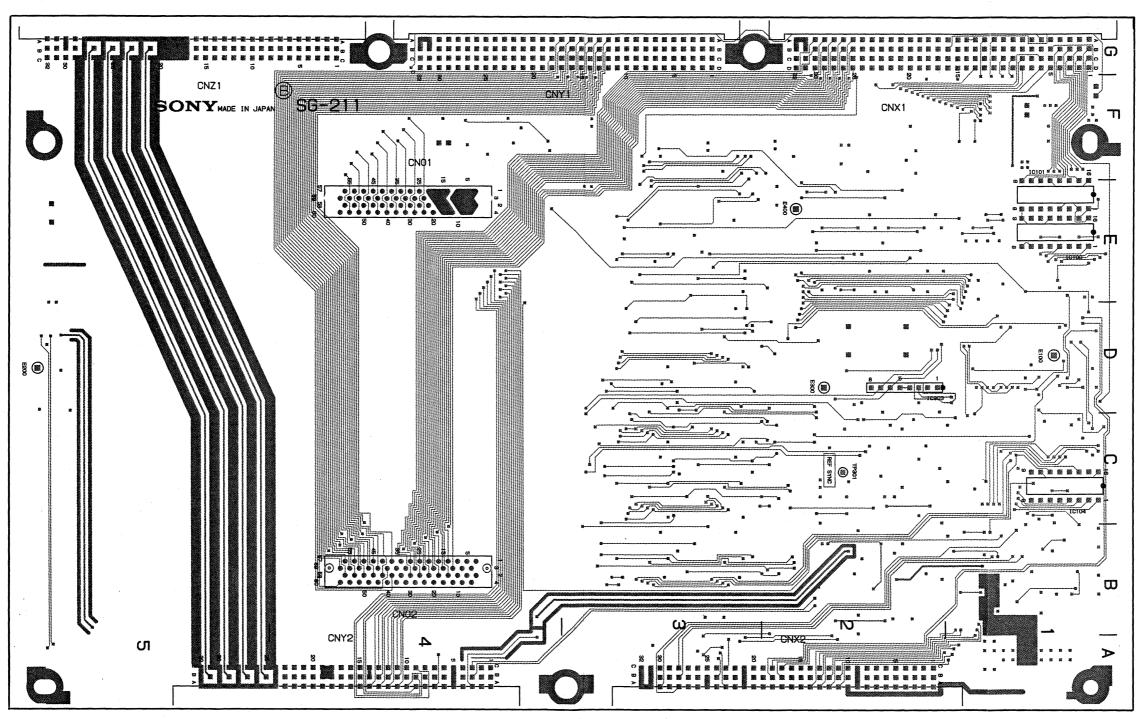
DVS-6000

(DVS-6000C ONLY) SG-211;D-1 SYNC Generator Board



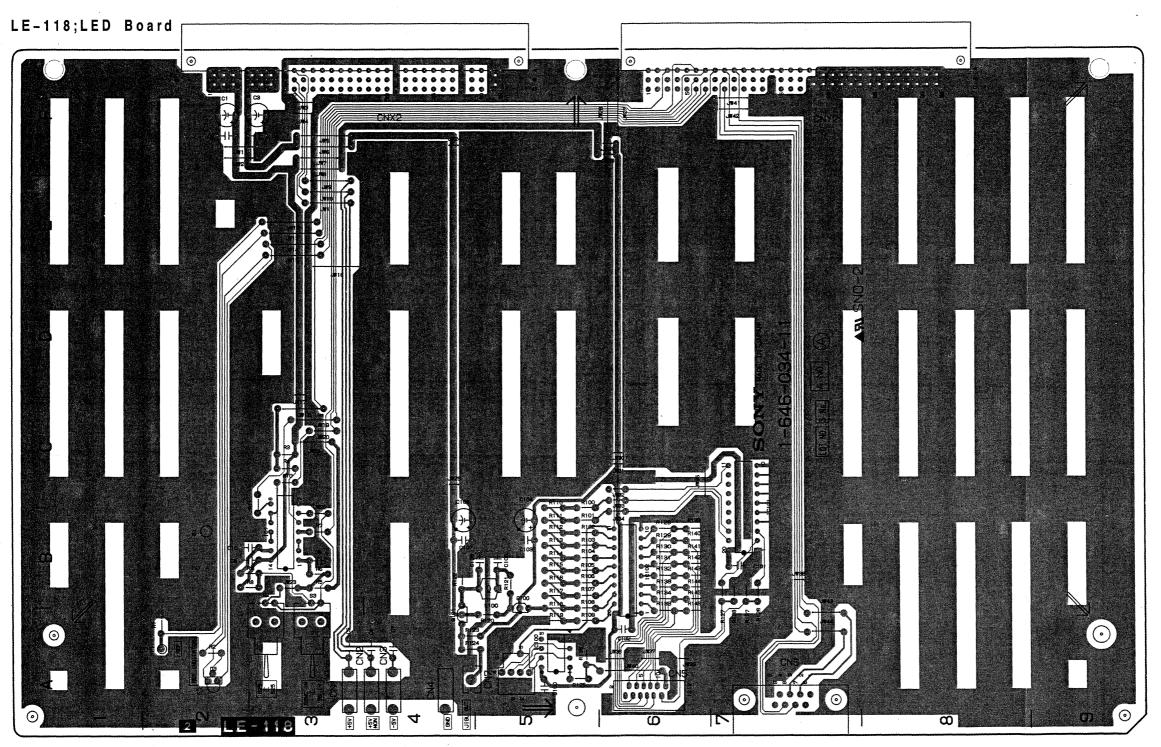
SG-211-A SIDE-1-646-024-11
DVS-6000C

(DVS-6000C ONLY) SG-211;D-1 SYNC Generator Board



SG-211-B SIDE-

}

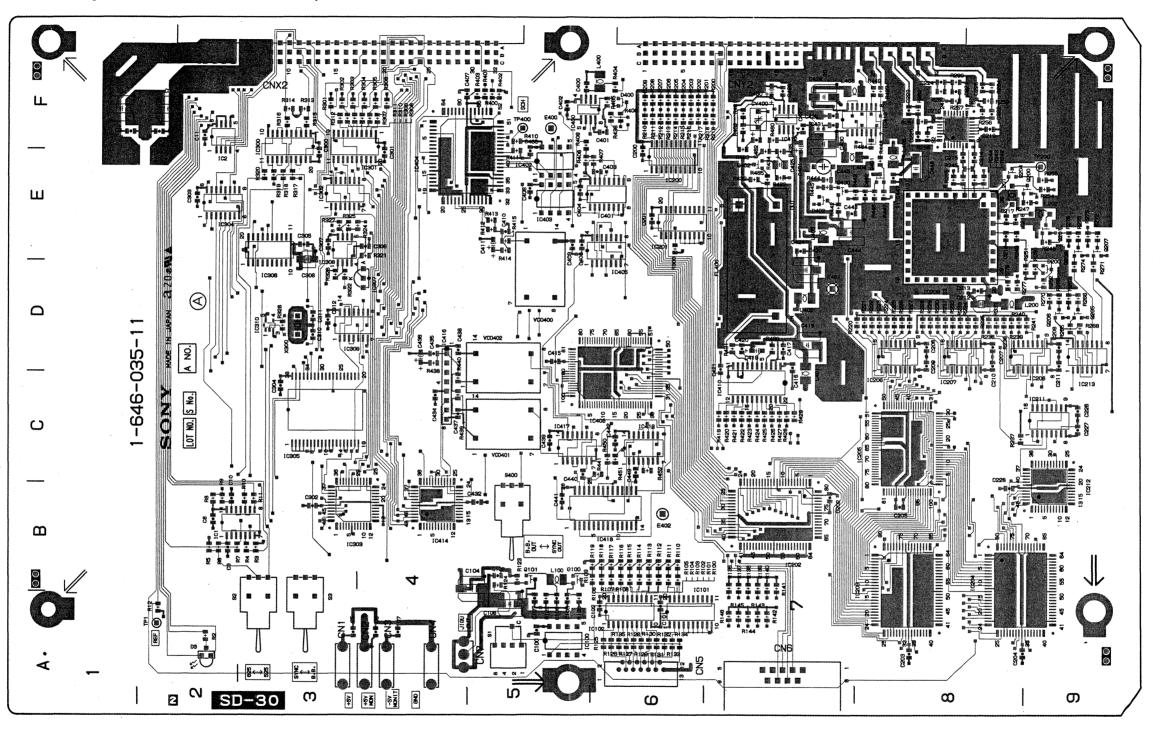


LE-118(1-646-034-11) CNX2 F-4 CNY2 F-7 CN1 CN2 CN3 CN4 CN5 CN6 A-3 A-4 A-4 A-6 A-7 A-5 B ~ 2 IC 1 0 0 A - 5 IC 1 0 1 B - 7 IC 1 0 2 B - 6 JW 3 JW 4 JW 5 JW 6 JW 7 JW 8 JW9
JW10
JW11
JW12
JW13
JW14
JW15
JW16
JW17
JW18
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JW20 JW 21
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JW 37
JW 38
JW 36
JW 37
JW 38
JW 34
JW 34
JW 34
JW 44 Q 100 Q 101 B – 5 A – 4 S 1 A – 5 T P 1 A - 2

LE-118-A SIDE-1-646-034-11
DVS-6000/6000C

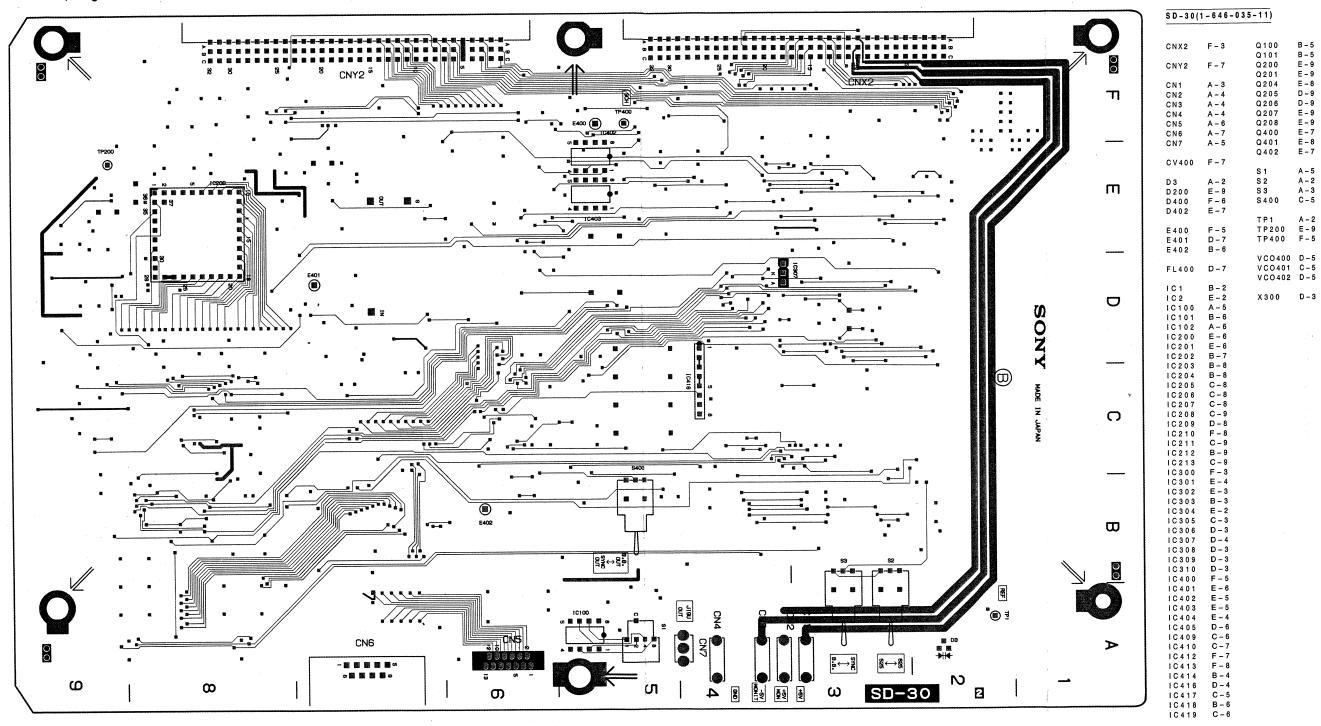
SD-30; Digital Edit PVW/REF Output Board

S D - 3 0 (1-646-03	35-11)	
CNX2	F – 3	Q100	B - 5
CNY2	F - 7	Q 1 0 1 Q 2 0 0 Q 2 0 1	B - 5 E - 9 E - 9
CN1 CN2 CN3 CN4 CN5	A - 3 A - 4 A - 4 A - 4 A - 6	Q 204 Q 205 Q 206 Q 207 Q 208	E - 8 D - 9 D - 9 E - 9 E - 9
CN6 CN7	A - 7 A - 5	Q 400 Q 401 Q 402	E - 7 E - 8 E - 7
C V 4 0 0	F - 7	S 1	A - 5
D 3 D 2 0 0 D 4 0 0 D 4 0 2	A - 2 E - 9 F - 6 E - 7	S 2 S 3 S 4 0 0	A - 2 A - 3 C - 5
E 4 0 0 E 4 0 1 E 4 0 2	F - 5 D - 7 B - 6	TP1 TP200 TP400	A – 2 E – 9 F – 5
F L 4 0 0		V C O 4 0 0 V C O 4 0 1 V C O 4 0 2	D - 5 C - 5 D - 5
C 1	BEABAEEBBBCCCCCDFCBCFEEBBCCDDDDFEEEEDCCFFBDCCBC	X300	D - 3



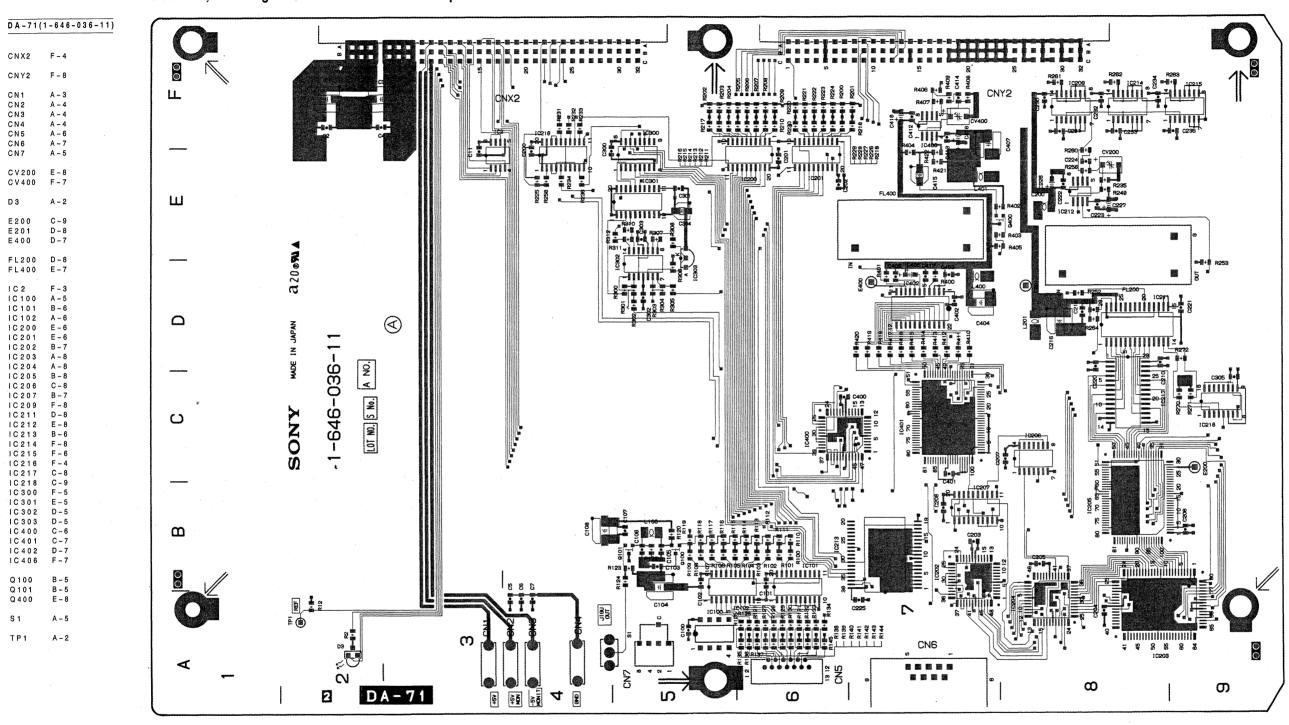
SD-30-A SIDE-1-646-035-11 BKDS-6060

SD-30; Digital Edit PVW/REF Output Board



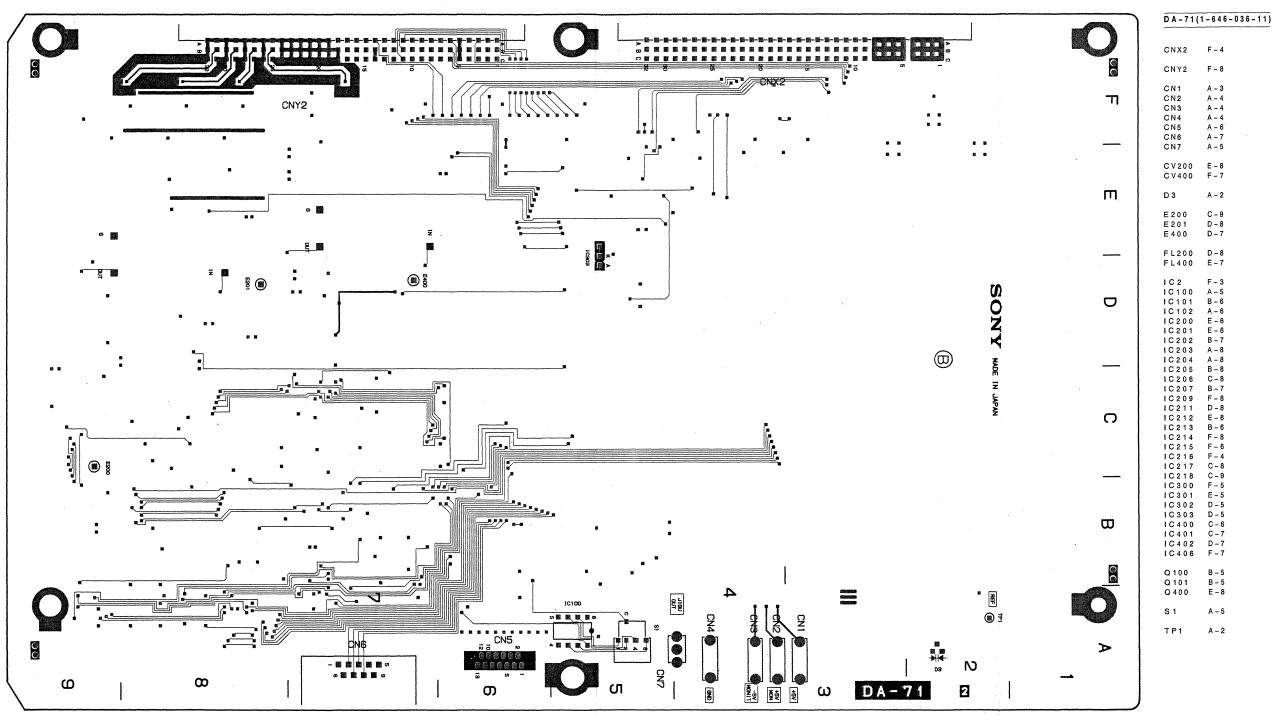
SD-30-B SIDE-1-646-035-11 BKDS-6060

(DVS-6000 ONLY) DA-71; Analog Edit PVW/REF Output Board



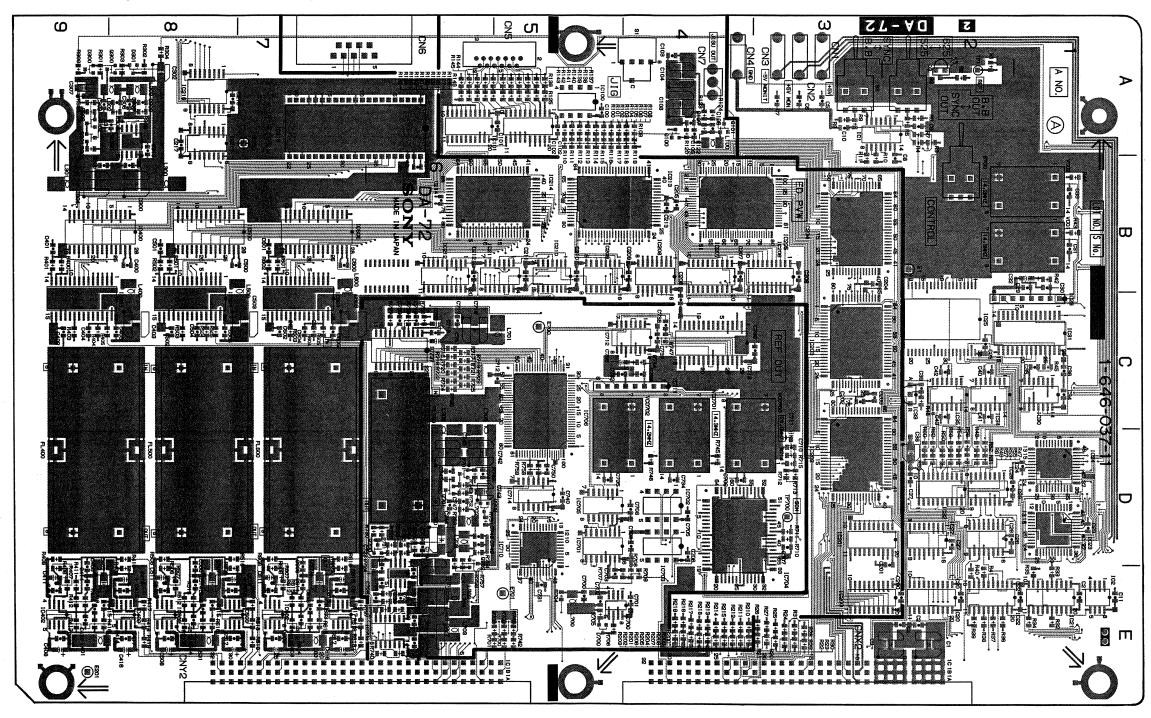
DA-71 -A SIDE-1-646-036-11 BKDS-6061

(DVS-6000 ONLY)
DA-71; Analog Edit PVW/REF Output Board



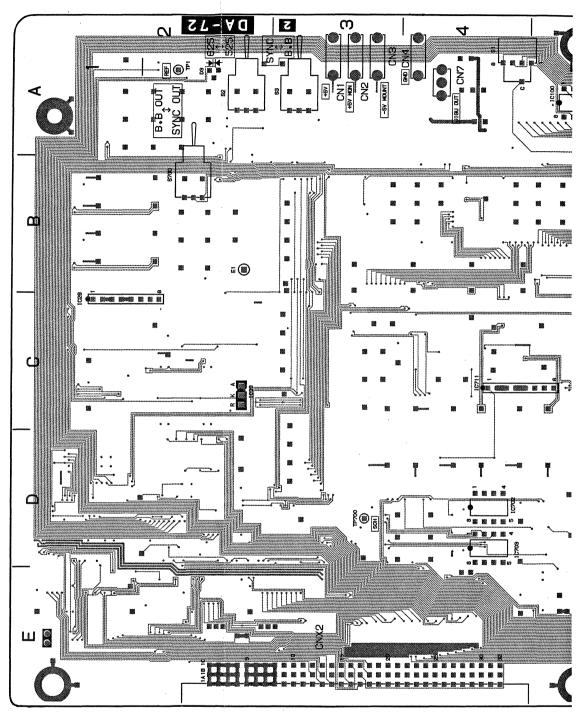
DA-71-B SIDE-

(DVS-6000C ONLY)
DA-72; Analog Edit PVW/REF Output Board

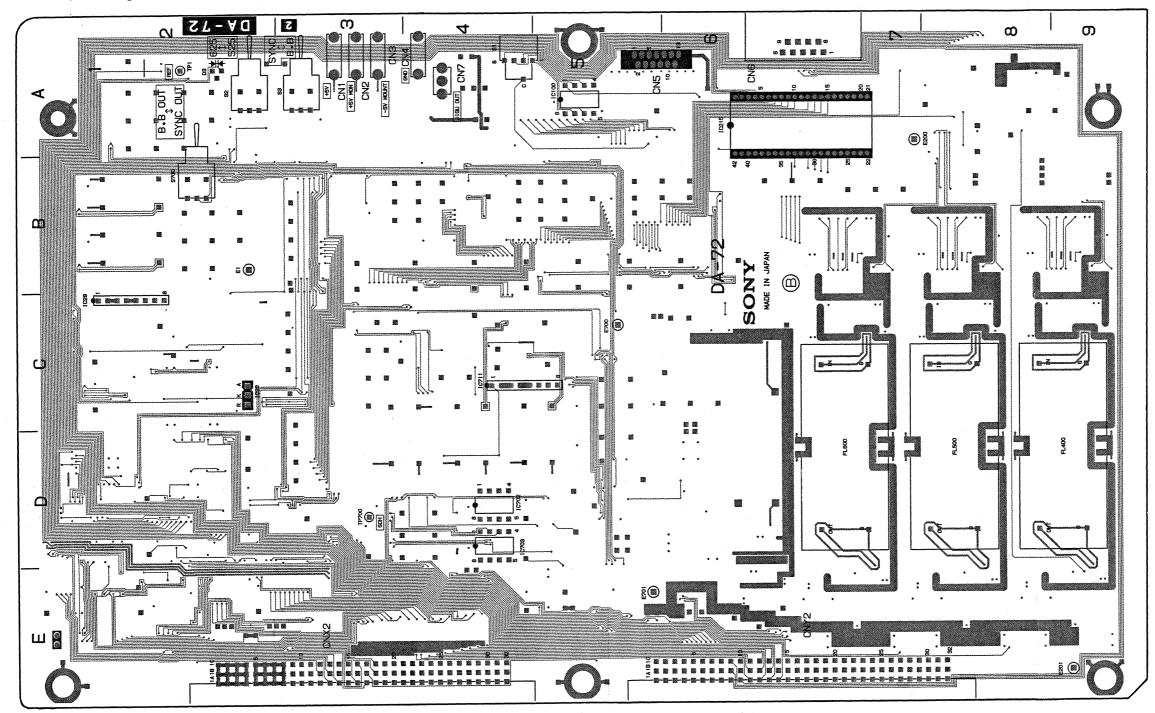


DA-72-A SIDE-1-646-037-11
BKDS-6062

(DVS-6000C ONLY)
DA-72; Analog Edit PVW/REF Output Board



(DVS-6000C ONLY)
DA-72; Analog Edit PVW/REF Output Board



DA-72 -B SIDE-1-646-037-11 BKDS-6062

WKG-10(1-646-025-11)

IC211

IC218

IC219

IC220

1C223

TP3

TP4

TP5 TP6

IC212 F-2 IC213 E-3

IC215 E-2 IC216 G-2

IC222 F-8

IC224 E-8

G - 3

J - 2

J - 1

H -- 1

E - 6

B - 6 C - 8

G - 8

CNA2 B-1

CN1101 A-4

CN1102 A-4

CN1201 E-4

CN1202 E-4

B - 8

G - 8

D - 3

A - 7 E - 4

J - 8

A - 8

A - 4

A - 3

B - 2

D - 6

CNB2

CNC2

CND2

CNX1

CNZ1

CN101

CN102

CN103

CN201

CN203

E 5

F 1

IC2

I C 3

I C 4 I C 5

I C 7 I C 8 I C 9 I C 1 0

IC 12

IC14

IC 15

IC17 IC18 IC19 IC101

IC103 IC104 IC105

IC106 IC107

IC108

IC110 IC111 IC112 IC113

IC114

IC115

IC116

IC121

IC118 D-1 IC119 D-2 IC120 D-1

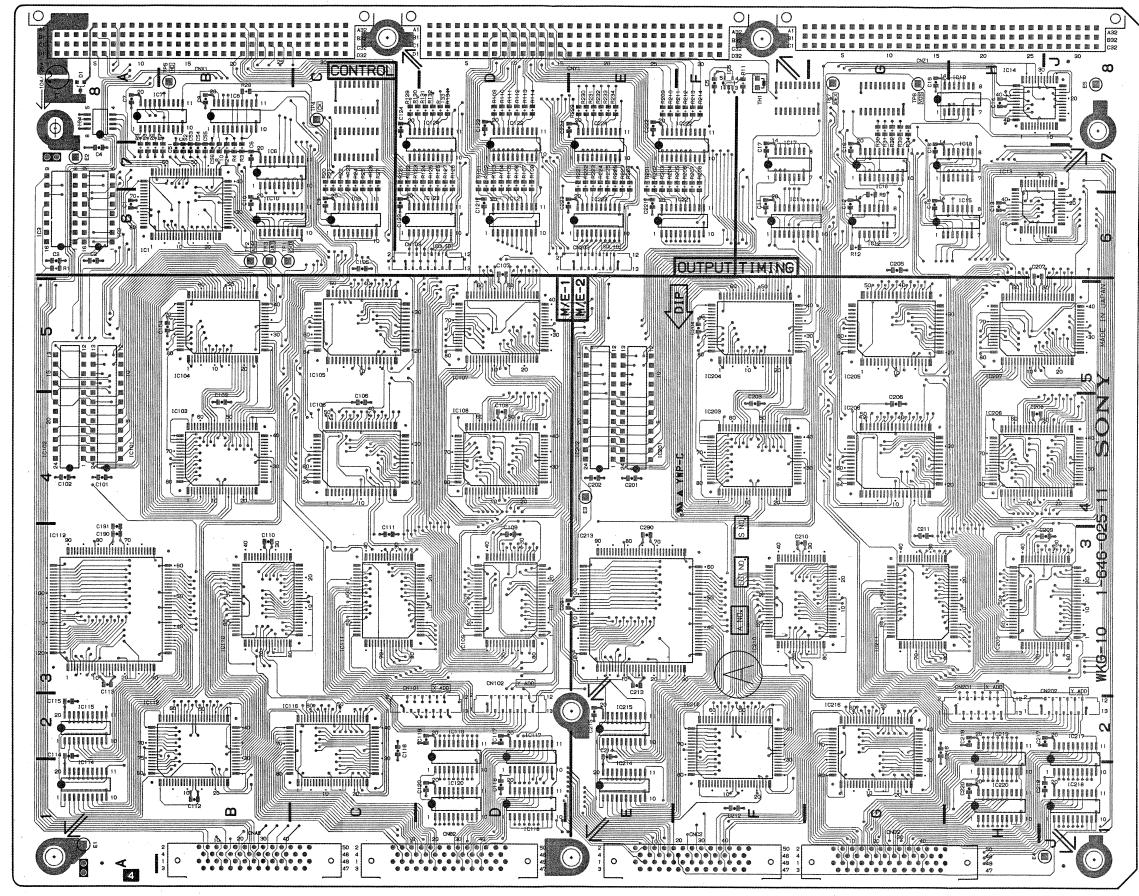
IC123 D-6

IC124 D-8 IC201 E-4

IC202 E-4 IC203 F-4 IC204 F-5 IC205 G-5

IC209 H-3 IC210 F-1

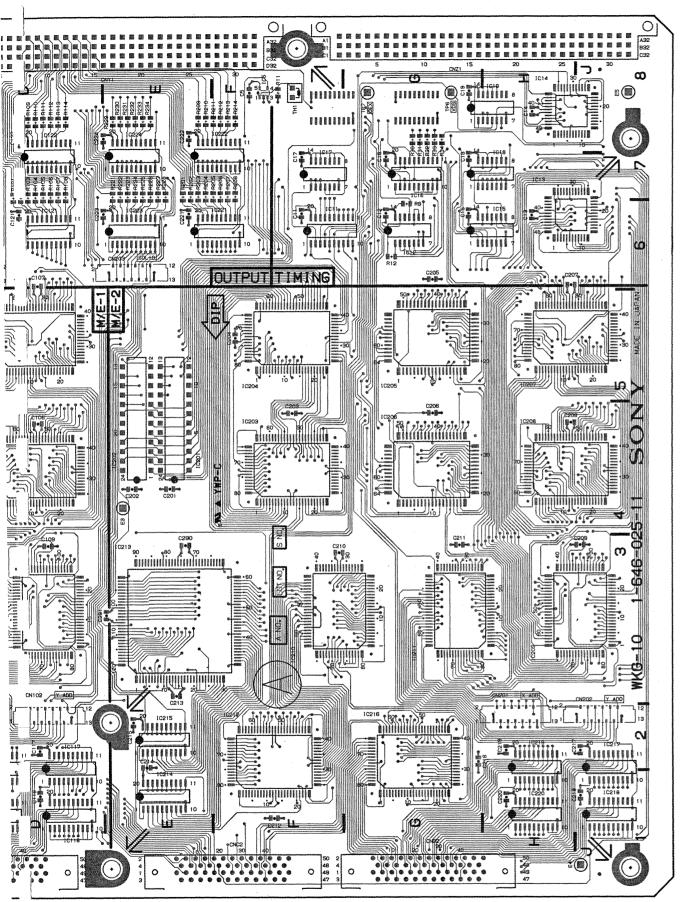
WKG-10; Wipe Generator Board



WKG-10 -A SIDE

IC206

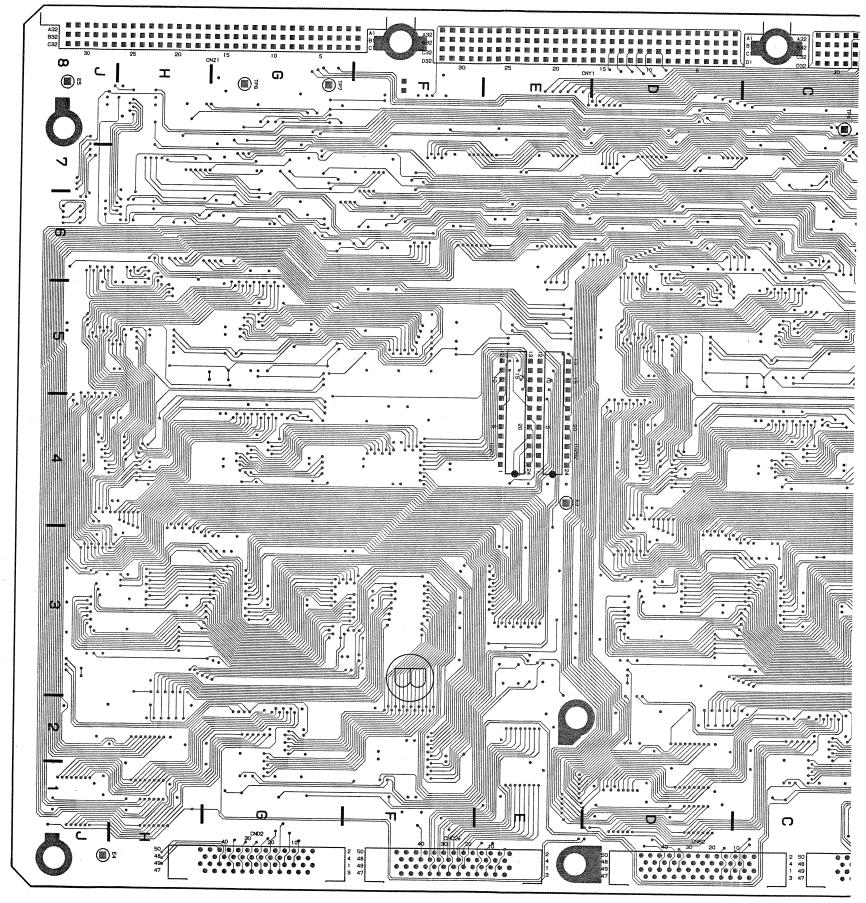
1C207



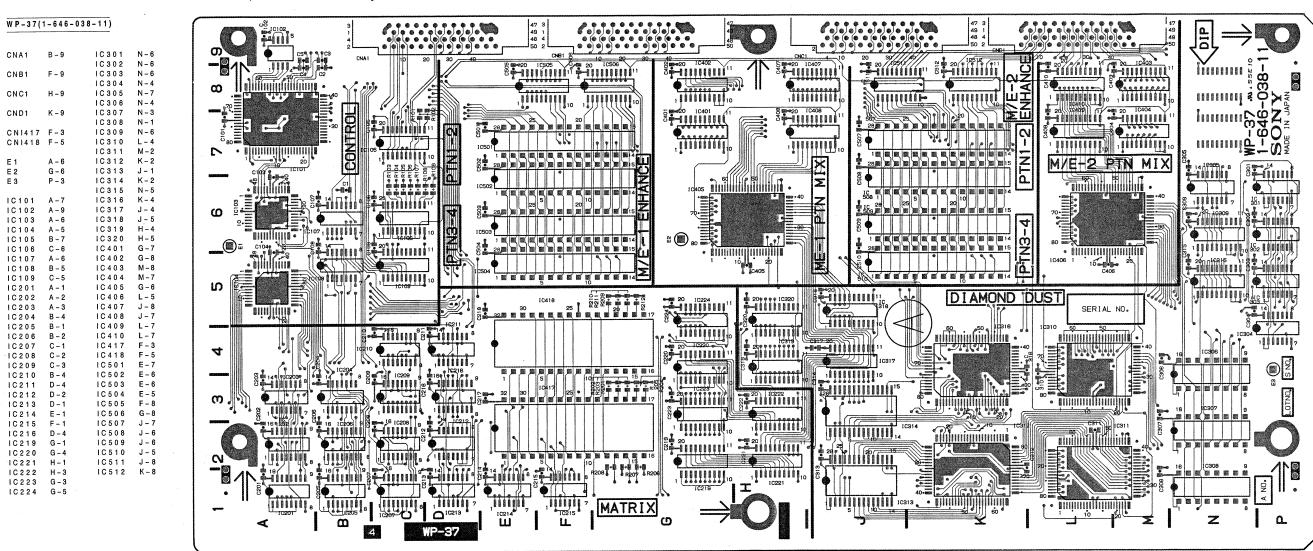
WKG-10 -A SIDE-

DVS-6000/6000C WKG-10 WKG-10 DVS-6000/6000C

WKG-10; Wipe Generator Board

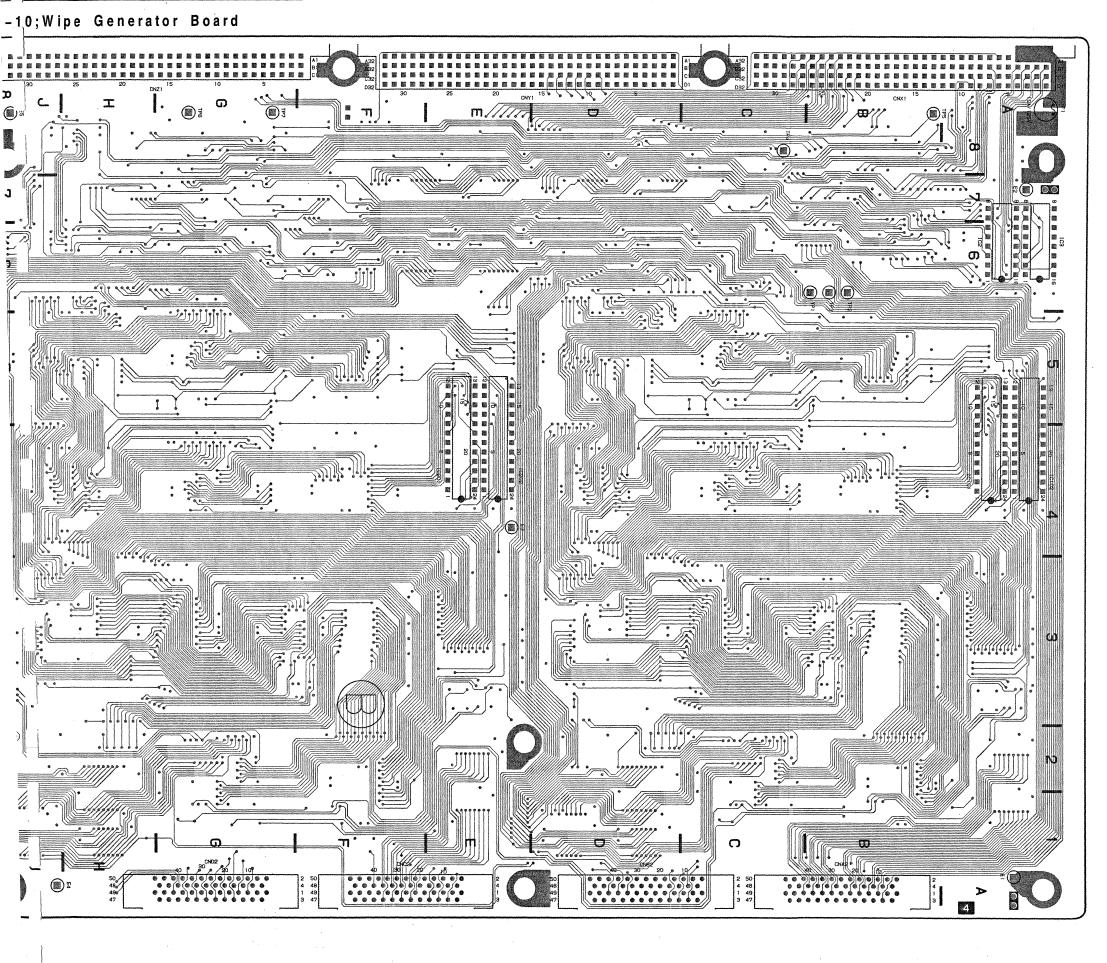


WP-37; Enhanced Wipe Generator Board



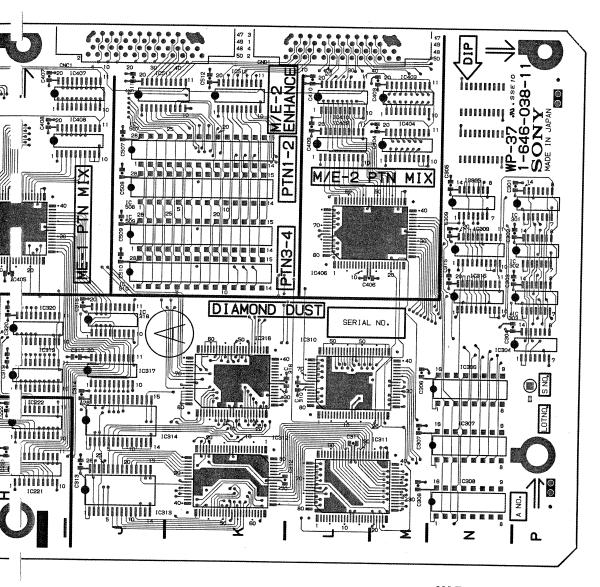
WP-37-A SIDE-

WKG-10(1-646-025-11)



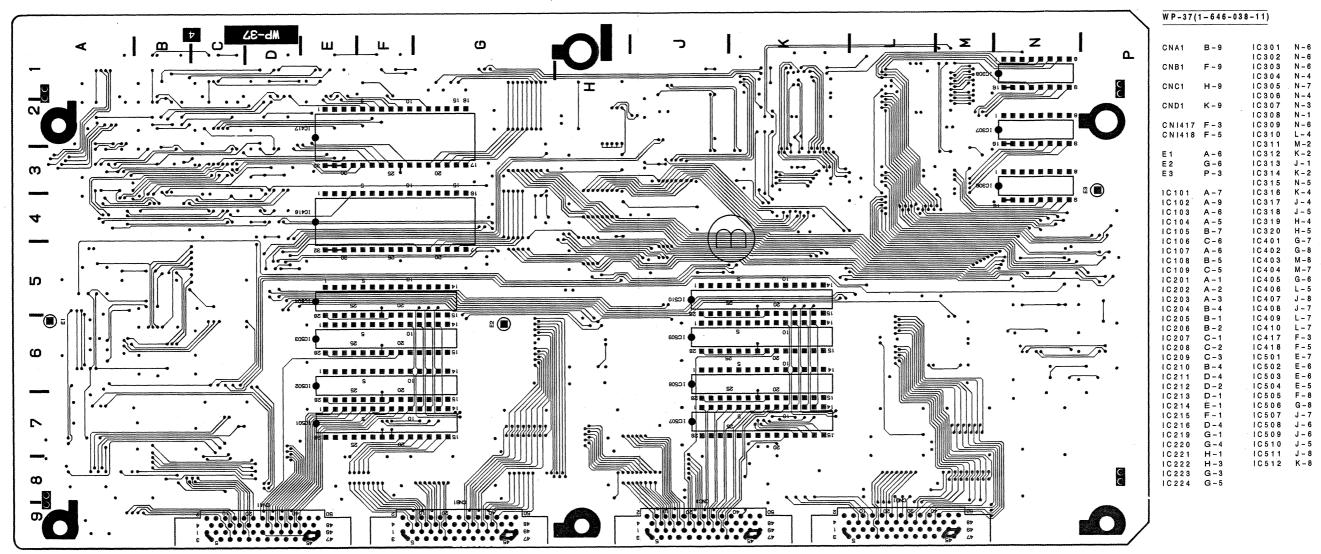
CNA2 B-1 IC121 IC121 D-6
IC122 D-8
IC123 D-6
IC124 D-8
IC201 E-4
IC202 E-4
IC203 F-4
IC204 F-5 CNB2 D - 1 CNC2 CND2 G-1 IC 204 F-5
IC 205 G-5
IC 206 G-6
IC 207 H-5
IC 208 H-4 CN1101 A-4 CNI101 A-4 CNI102 A-4 CNI201 E-4 CN1202 E-4 IC209 IC210 IC 2 1 1 IC 2 1 2 G - 3 F - 2 CNY1 IC 2 1 3 E - 3 IC 2 1 4 E - 1 CNZ1 G - 8 IC 2 1 5 E - 2 IC 2 1 6 G - 2 CN101 IC 216 G-2
IC 217 J-2
IC 218 J-1
IC 219 H-2
IC 220 H-1
IC 221 F-6
IC 222 F-8
IC 223 E-6
IC 224 E-8 CN102 CN103 D - 3 D - 6 H - 3 J - 3 E - 6 CN201 CN202 CN203 TH1 A – 7 E – 4 F - 8 E 2 E 3 H – 1 J – 8 TP2 TP3 TP4 TP5 TP6 TP7 B - 6 C - 8 B - 8 G - 8 I C 2 I C 3 I C 4 I C 5 A - 8 F - 8 I C 6 I C 7 B – 7 A – 8 I C 8 IC10 IC11 G-6 H-7 H-8 H-6 G-7 IC12 IC13 IC14 IC15 IC16 IC19 IC102 IC104 IC105 IC106 IC108 IC109 IC110 B-3 IC111 C-3 IC112 A-2 IC113 A-3 IC114 IC115 IC115 A-2 IC116 B-2 IC117 D-2 IC118 D-1 IC119 D-2

WKG-10 -B SIDE-



WP-37-A SIDE-

WP-37; Enhanced Wipe Generator Board



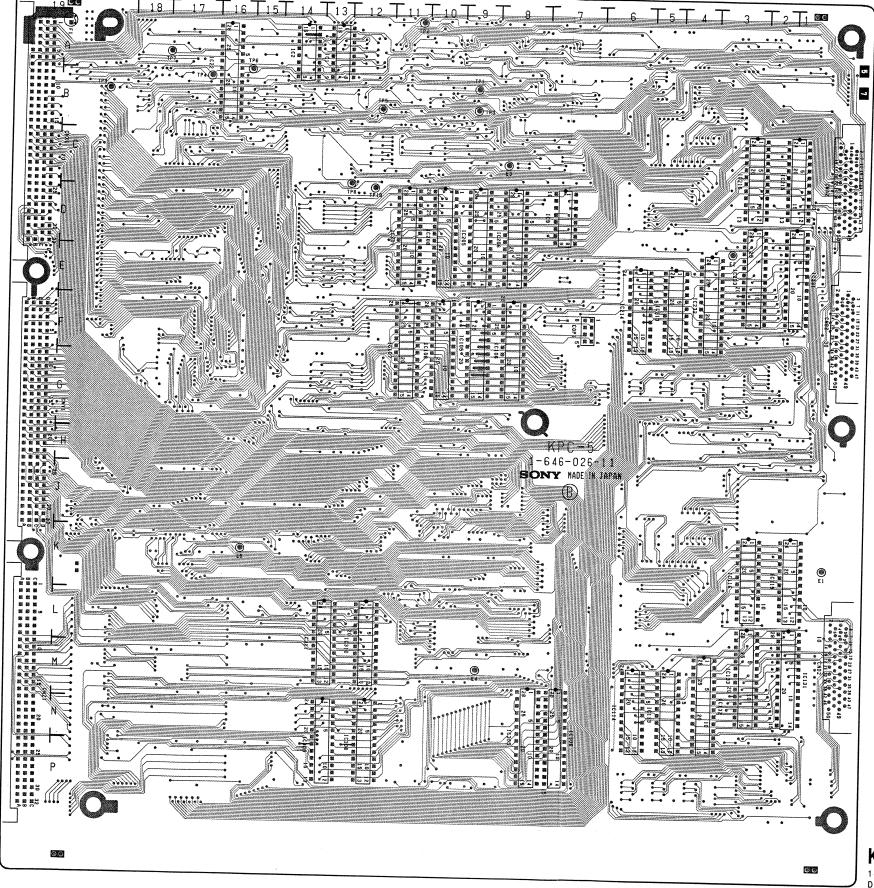
WP-37-B SIDE-

KPC-5; Key Processor Board

KPC-5(1-646-026-11)	· 1 2 T 3 T 4 T 5 T 6	7 T 8 T 9 T 10 11 8 8 12 8 13 14 T 15 16 T 17 T 18 T CONTROL 55 1	٩
CNA2 C-1 C131 M-2			8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
IC132 N-3 CNB2 F-1 IC133 M-3 IC134 P-3			
CND2 L-1 IC135 P-1 IC136 L-17			
CNX1 B-19 C137 M-17 C138 L-14			220
CNY1 G-19 IC139 M-14 IC145 H-1			
CNZ1 N-19 IC146 P-6 IC147 P-5	5		
CN110 J-2 IC148 P-4 CN111 J-1 IC201 E-11 CN210 B-2 IC202 D-12	THE STATE OF THE S		
CN211 B-1 IC203 E-13 CN300 K-7 IC204 D-13			
CN301 M-7 C 2 0 5 D - 9 CN302 C-14 C 2 0 6 D - 8			
CN310 N-18 IC207 D-11 CN311 L-18 IC208 D-10			
IC 2 0 9 A - 3 COP1 F - 7 IC 2 1 0 A - 3 COR1 F - 7 IC 2 1 1 B - 6	* # # # # # # # # # # # # # # # # # # #		
IC 2 1 2 D - 6 D1 A - 19 IC 2 1 3 F - 5			
IC214 F-6 E1 K-1 IC215 C-1	3 5 1 1 2 3 2 3 1 3 5 1 1 2 3 3 3 1 1 2 3 3 3 3		
E2 D-3 IC216 C-2 E3 C-8 IC231 D-1 E4 M-9 IC232 F-3			
E5 K-15 IC233 E-3 IC234 G-3			TO H H W H H W H H
F1 A-19 IC235 G-1 IC236 N-17			
IC1 A-12 IC237 P-17 IC2 A-14 IC238 N-14 IC3 A-11 IC239 P-14			# # # # # #
IC3 A-11 IC239 P-14 IC4 B-12 IC245 A-1 IC5 K-19 IC246 G-6			
IC 6 B-15 IC 247 G-5 IC 7 B-10 IC 248 G-4		WIND SILVEN TO KPC - 5 - 1 - 626 026 - 1 SONY HADEN JAPAN	2 2 2 2 2 2 2 2 2 3 3 3 3
IC8			
1C20 A-18 1C302 J-11 1C21 A-17 1C304 J-18			# # # # # # # #
IC22 B-17 IC305 P-8 IC30 B-18 IC306 N-7			
IC31 B-14 IC307 N-11 IC32 C-12 IC308 N-11 IC33 B-11 IC309 N-14			8 8 8
IC33 B-11 IC309 N-14 IC34 C-9 IC310 L-11 IC35 C-12 IC311 L-14			
IC36 A-14 IC312 M-19 IC37 B-14 IC313 P-19			C
IC41 E-7 IC314 L-19 IC43 F-8			E &
IC51 B-8 TH1 K-19 IC52 A-8 IC53 B-7 TP1 B-9			## ## ##
IC 5 4 A - 7 TP2 A - 10 IC 5 5 A - 9 TP3 B - 9			
IC100 L-11 TP4 B-17 IC101 G-12 TP5 B-12			2 E
IC102 F-12 TP6 A-16 IC103 G-14 TP7 A-18 IC104 F-13 TP8 C-13			10 E
IC105 F-9 TP9 B-19 IC106 F-8 TP10 C-12			50 B
IC107 F-12 IC108 F-10			2 S
IC109 H-3 IC110 H-3			# 6 # 5 # 6 # E
IC111 J-6 IC112 L-6 IC113 N-5			
IC114 N-6 IC115 K-1			2 5
IC116 K-2	KEY1 PROC		
	KEY1 PROC	TRANSITION PROC	

KPC-5-A SIDE-

• 30



IC132 N - 3 CNB2 IC133 IC134 P - 3 CND2 IC136 CNX1 IC137 M-17 IC138 IC139 CNY1 CNZ1 IC146 IC147 CN110 IC148 P-4 IC201 E-11 IC202 D-12 CN210 CN211 IC203 E-13 D-13 CN300 IC204 CN301 M - 7 1C205 1C206 CN302 C-14 CN310 N - 18 IC207 CN311 L-18 IC208 D-10 IC209 A - 3 COP1 IC210 A-3 IC211 B-6 COR1 IC212 IC213 IC215 IC216 C-1 C-2 E 2 E 3 C-8 IC231 IC232 E 5 IC233 IC234 IC235 F 1 IC236 IC237 1 C 2 IC239 P-14 I C 4 IC245 1 C 2 4 6 1 C 2 4 7 G - 5 IC7 B – 10 B – 17 IC248 IC300 I C 9 D-7 C-7 IC301 IC302 IC303 J - 11 IC 21 A – 17 B – 17 IC304 IC305 P-8 IC306 N-7 IC30 IC31 B-14 1C307 N - 1 1 IC308 N-11 IC33 B-11 10309 IC34 IC310 L – 11 L – 14 IC35 IC36 C-12 A - 14 IC312 IC313 IC37 IC41 E - 7 IC314 IC51 TH1 K – 19 IC 5 2 A – 8 IC53 IC54 TP2 TP3 L – 1 1 G – 12 IC100 IC101 TP5 IC102 IC103 A - 16 G-14 C-13 IC105 IC106 TP10 C-12 IC107 IC108 F-10 IC110 J - 6 IC112 IC113 N - 5

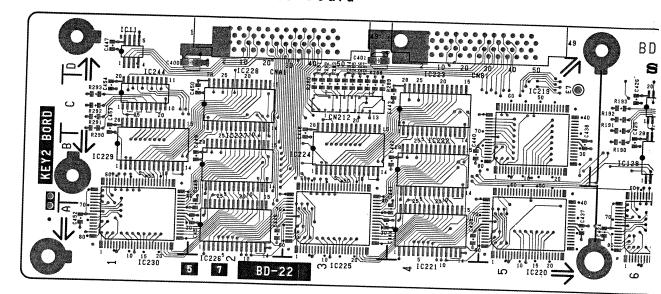
KPC-5(1-646-026-11)

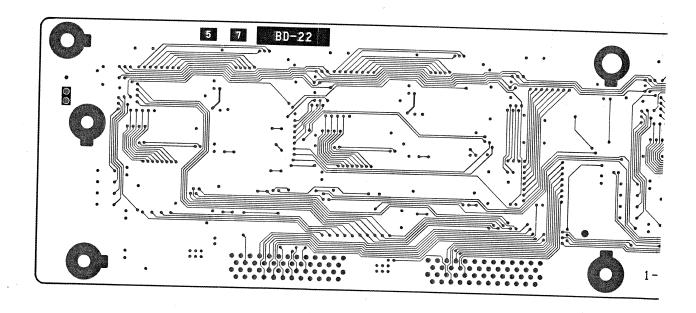
IC131 M-2

CNA2 C-1

KPC-5-B SIDE-

BD-22; Key Border Generator Board





BD-22(1-646-033-11)

D - 2 D - 4 D - 9

C-8 CN212 C-3

C-5

IC119 C-10 IC120 A-10 IC121 A-9
IC122 B-9 D - 9 IC124 B-8 IC125 IC126 A-7 IC127 B-7

IC128 D-7 IC129 B-6 IC130 A-6

IC144 D-6 IC219 C-5 IC220 A-5

IC221 A-4
IC222 B-4
IC223 D-4
IC224 B-3

IC225 A-3 IC226 A-2 IC227 C-2

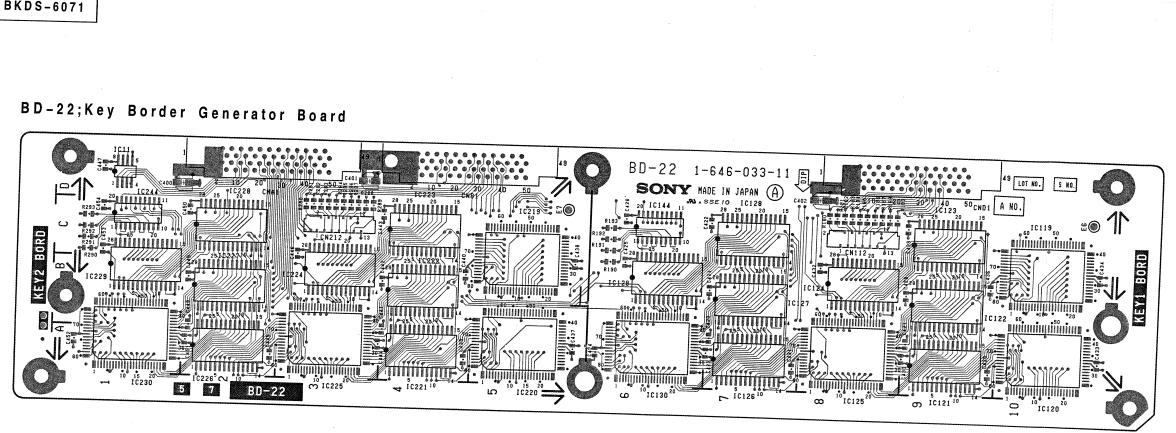
IC228 D-2 IC229 B-1 IC230 A-1 IC244 D-1

CNB1 CND1

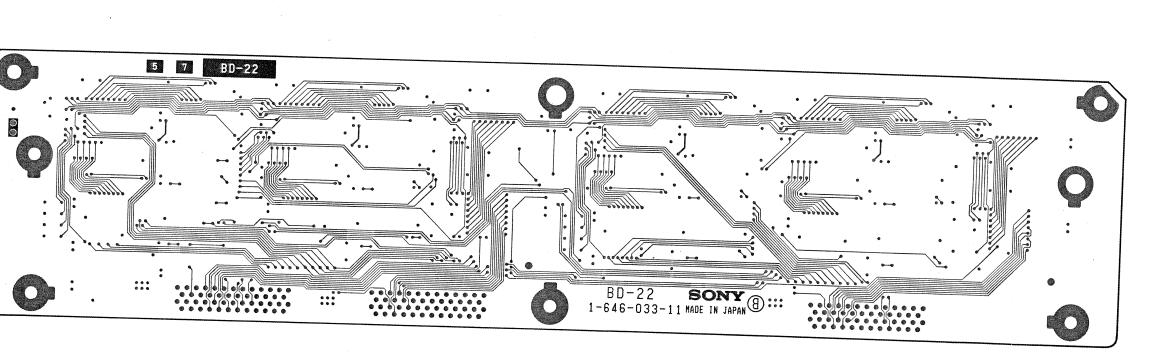
CN112

E 7

BD-22; Key Border Generator Board

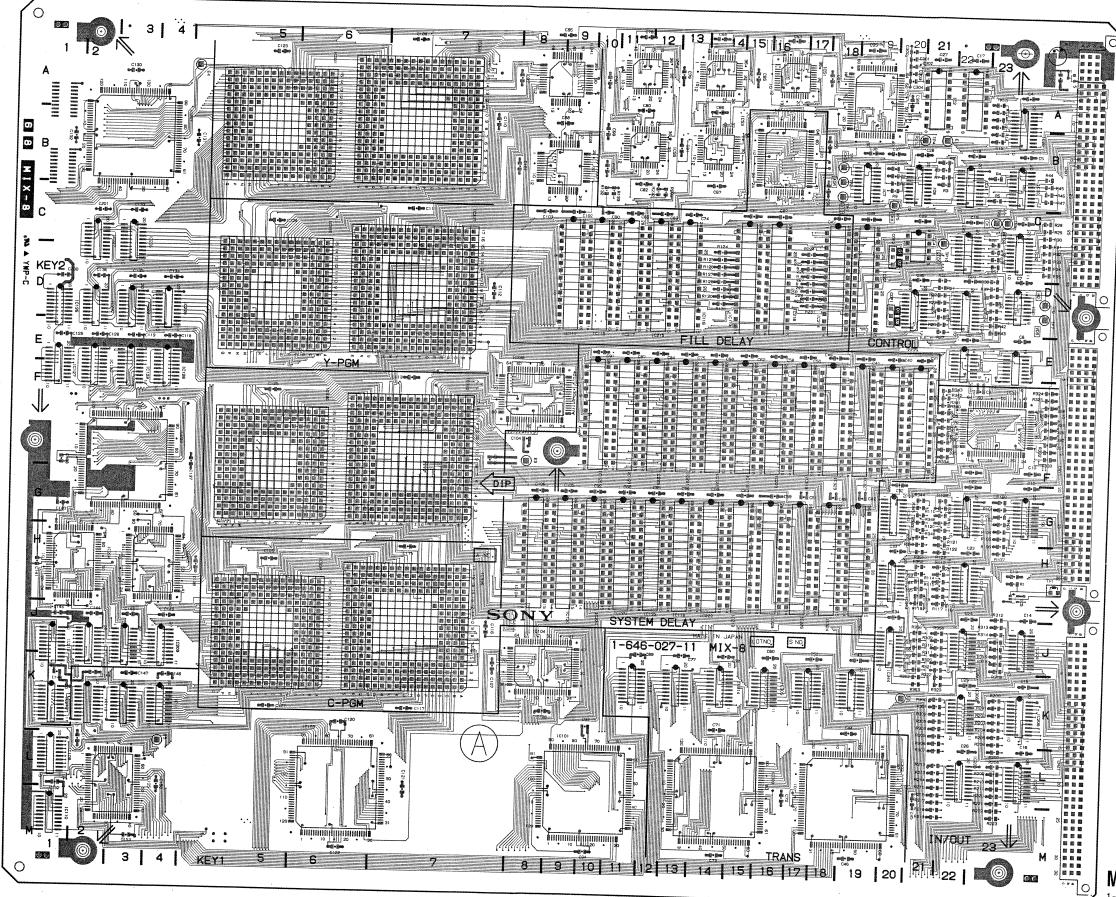


BD-22 -A SIDE-1-646-033-11 BKDS-6071



BD-22-B SIDE-1-646-033-11 BKDS-6071

MIX-	8 (1 - 6 4 6 - 0	27-11)	
CNX1	B - 23	10321	F - 2
CNY1	F - 23	IC322 IC324	J - 1
CNZ1	L - 23	1C326 1C328	J - 1 J - 1
COP1 COP2	D - 19 C - 19	IC334 IC336 IC338	H - 6 H - 7 E - 8
D 1	A - 23	I C 3 4 2 I C 3 4 3	G - 2 H - 2
E 1 E 2 E 3 E 4 E 5	B-21 K-21 F-8 A-5 L-4	TH1 TP1 TP2 TP3 TP4 TP5 TP6	H-2 B-1 B-1 B-1 B-2 C-2 D-2
C 1	A - 2 2 1 A - 2 1 A - 2 1 C - 2 1 3 B - 1 9 B - 2 3 D - 2 3 B - 2 2 D - 2 2 D - 2 2 C - 2 2 3 E - 2 2 A - 1 7 A - 1 2 A - 1 2 A - 1 2 K - 6 J - 8 G - 2 3 H - 2 3 L - 1 K - 4 K - 2 D - 1 4 E - 1 0 D - 1 3 E - 9	T P 7 T P 8 T P 9	D-2 C-22 C-22 C-22



MIX-8-A SIDE-

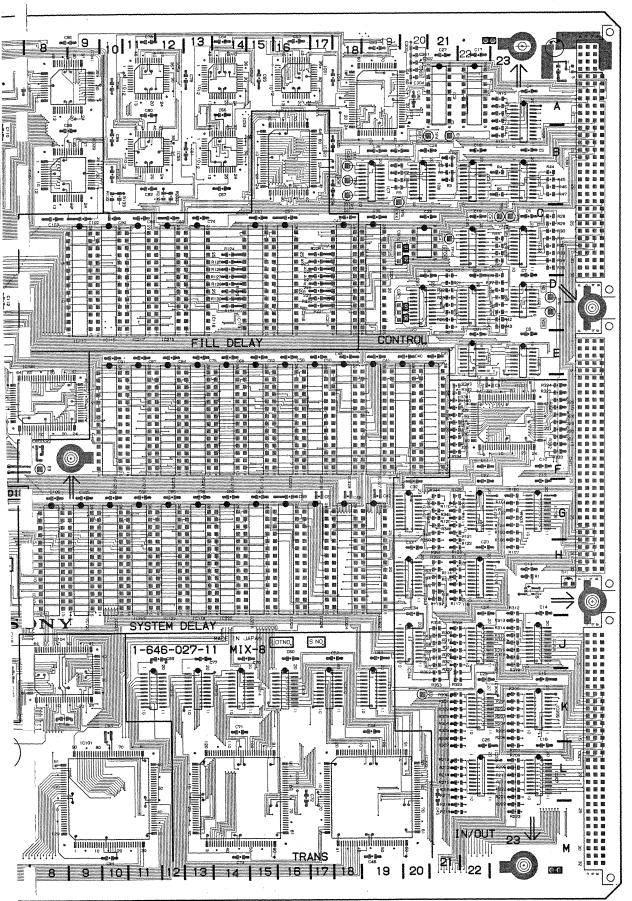
IC117 E-9 IC118 J-13 IC120 J-9

IC118 J-13 IC120 J-9 IC122 J-12 IC124 H-8 IC201 B-4 IC203 F-4

IC 2 0 3 F - 4
IC 2 0 4 H - 2
IC 2 0 6 K - 2 3
IC 2 0 7 L - 2 3
IC 2 0 8 L - 2 3
IC 2 0 9 J - 4

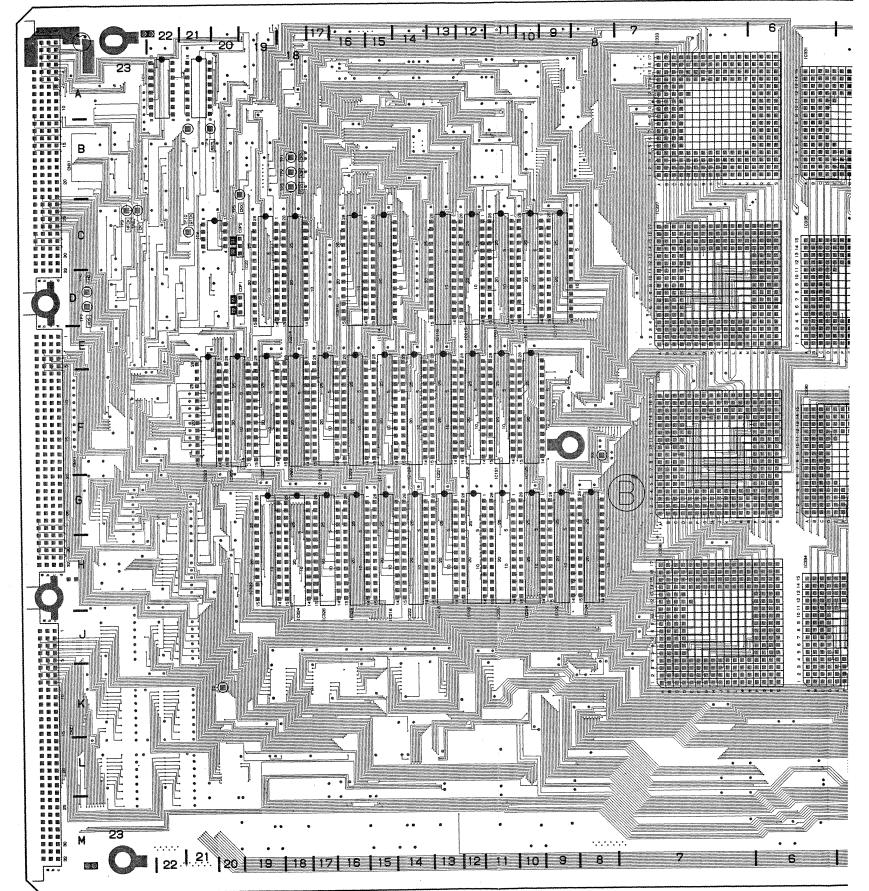
IC220 J-11 IC222 J-14 IC224 J-10 IC300 L-16 IC302 L-20

IC 302 L-20
IC 306 K-23
IC 307 J-23
IC 308 J-23
IC 312 K-12
IC 313 K-13
IC 314 K-15
IC 320 B-17

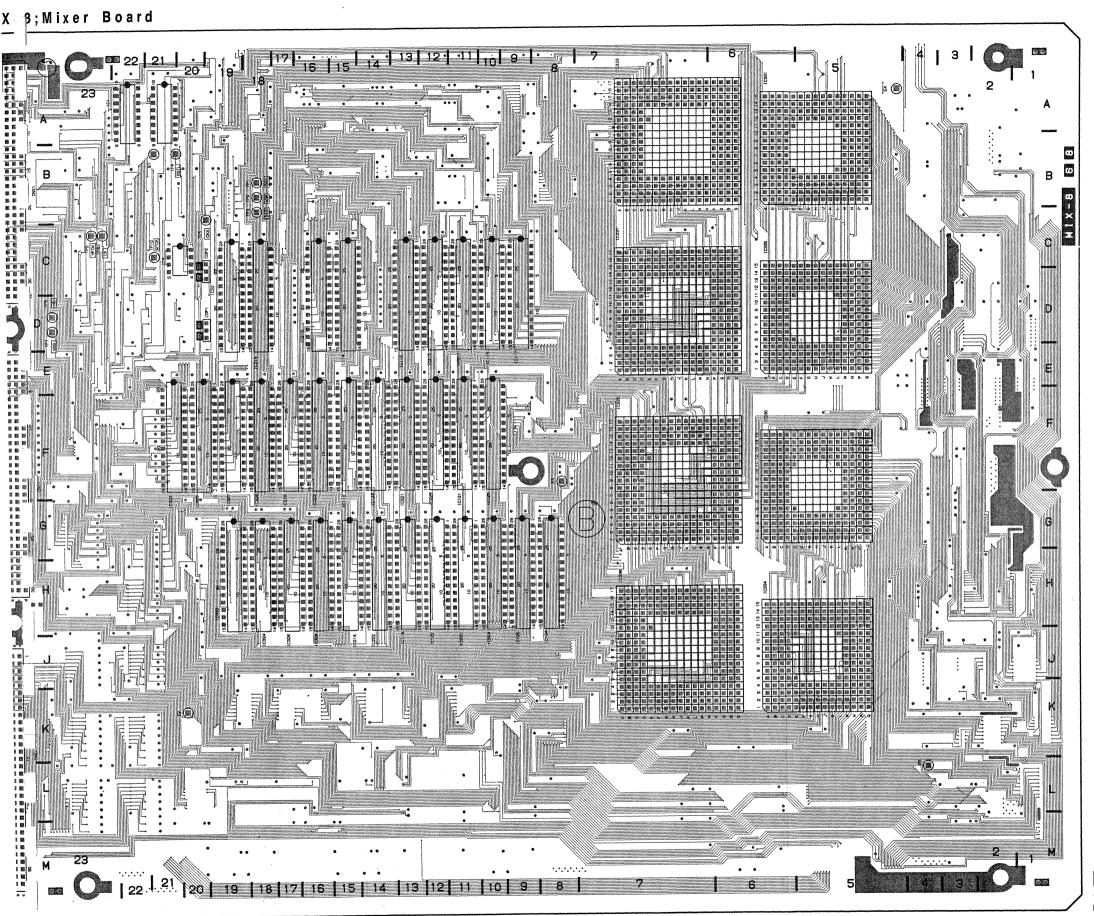


MIX-8-A SIDE-1-646-027-11 DVS-6000/6000C

MIX-8; Mixer Board

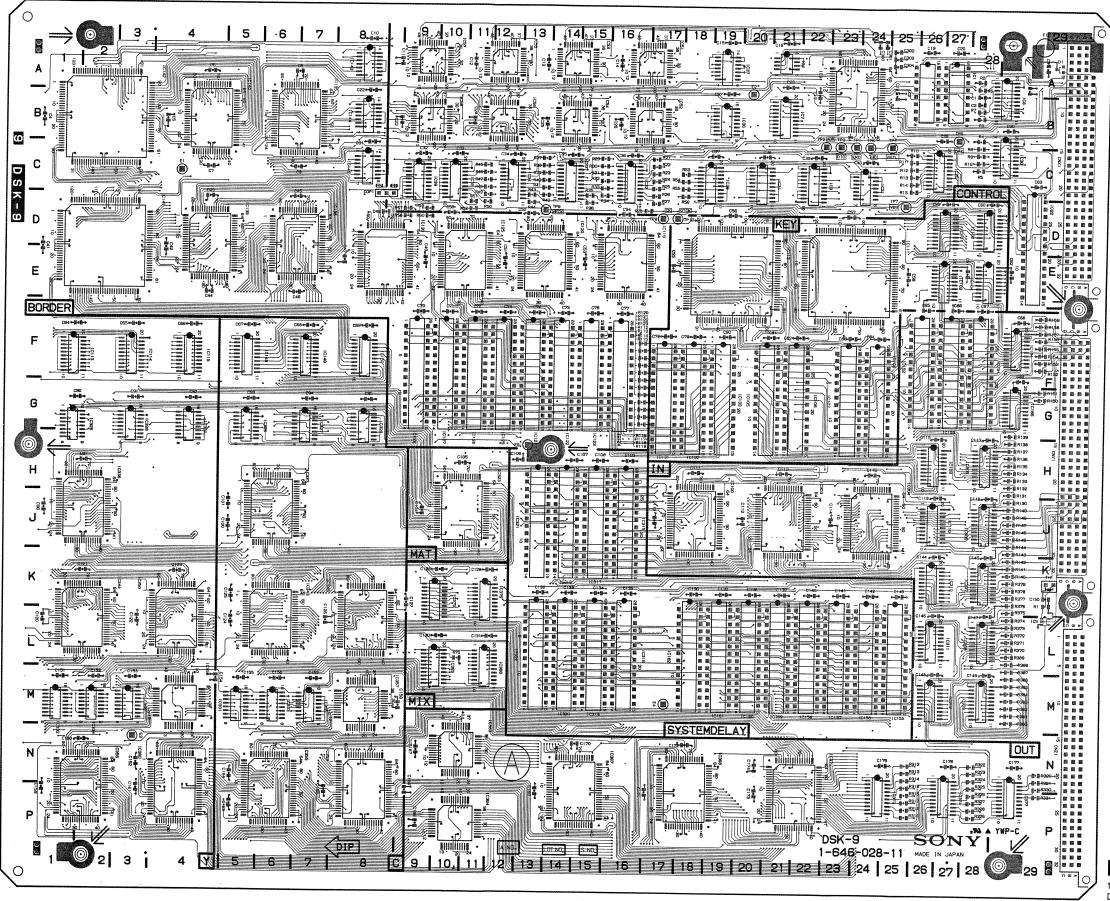


MIX-8(1-646-027-11)



MIX-8-B SIDE-1-646-027-11 DVS-6000/6000C

IC321 F-23 IC322 J-19 IC324 J-18 IC326 J-17 J - 17 J - 16 H - 6 H - 7 E - 8 G - 20 CNZ1 IC334 IC336 IC338 COP2 C-19 A - 23 D 1 IC343 H-20 B – 2 1 K – 2 1 TH1 H-23 E 1 E 2 TP1 TP2 B – 18 B – 18 E 3 E 4 E 5 A - 5 L - 4 B-18 B-21 C-20 D-23 A - 23 TP6 TP7 TP8 TP9 TP10 D-23 D-23 C-23 IC1
IC2
IC3
IC4
IC5
IC7
IC8
IC20
IC21
IC22
IC30
IC31
IC32
IC34
IC35
IC36
IC37
IC51
IC55
IC101
IC103
IC104
IC106
IC107
IC106
IC107
IC108 A - 2 1 A - 2 0 C - 2 1 H - 2 3 B - 1 9 B - 2 1 B - 2 3 D - 2 3 D - 1 9 B - 2 2 C - 2 3 D - 2 3 D-22 C-22 E-23 E-22 A-17 A-15 A-12 K-9 K-6 J-8 G-23 G-23 L-1 M-1 K-3 K-2 D-14 E-10 IC110 IC111 IC112 IC113 IC114 IC115 D-13 E-9 J-13 J-9 IC116 IC118 IC120 J - 12 H - 8 B - 4 F - 4 H - 2 IC124 I C 2 0 3 I C 2 0 4 IC217 E-11 IC218 J-15 IC220 J-11 J-14



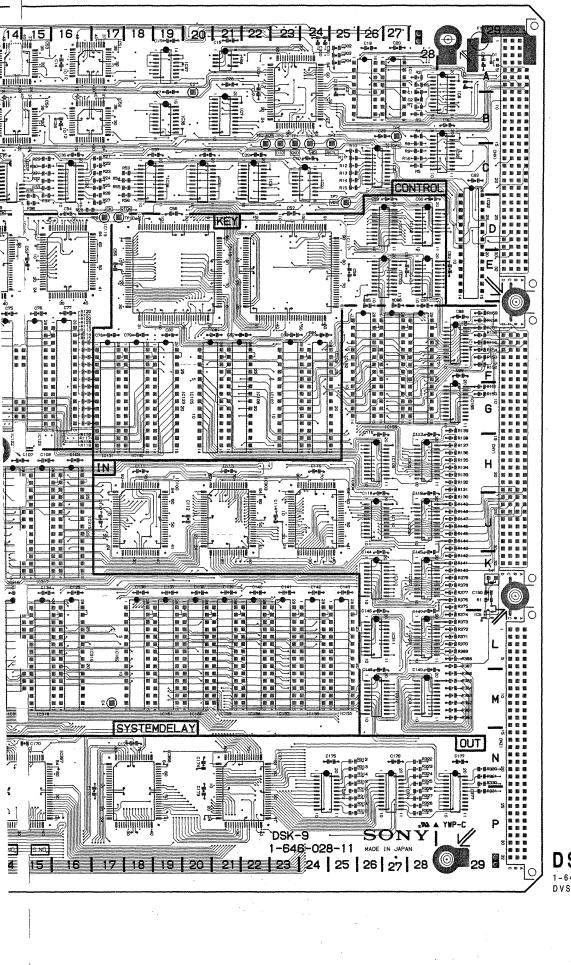
DSK-9-A SIDE 1-646-028-11 DVS-6000/6000C

IC149 F-7 IC150

IC151 F-28 IC152 F-25

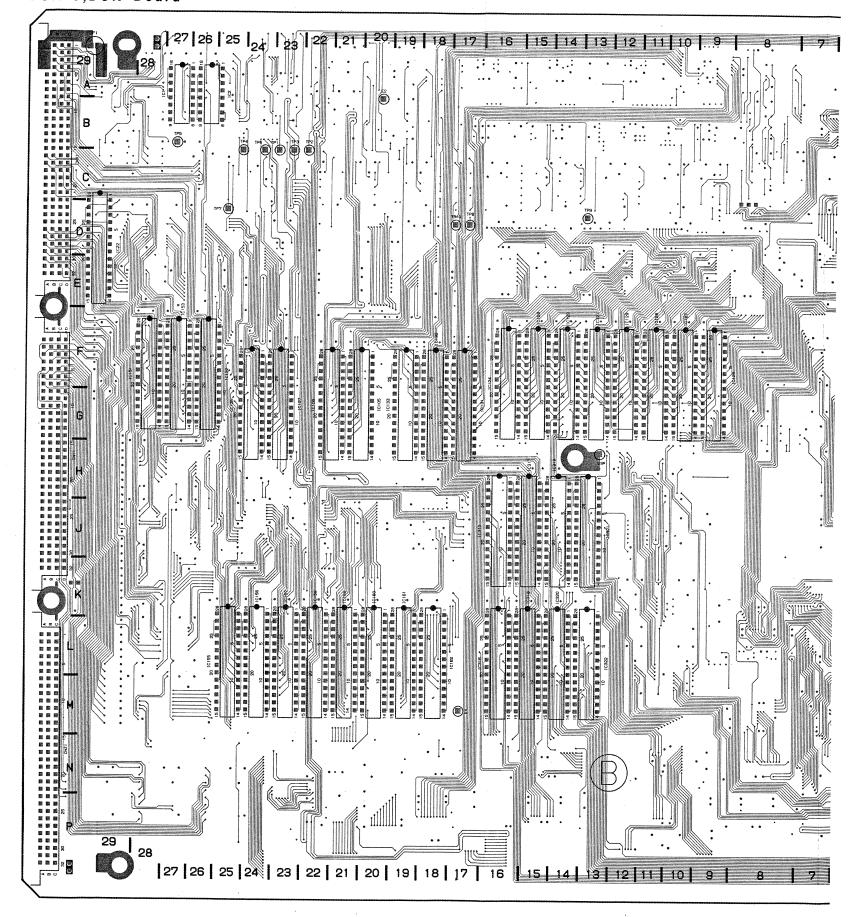
IC155 M-25

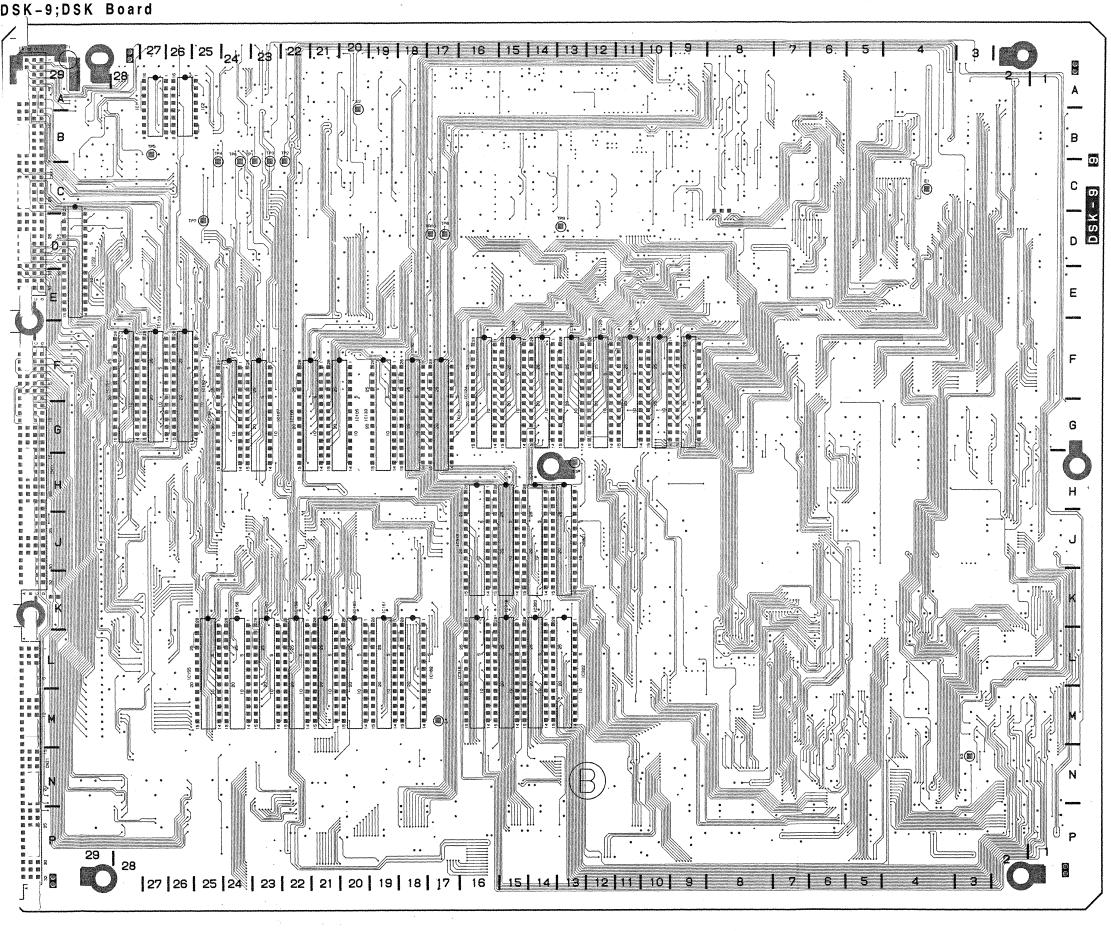
F - 8



DSK-9 - A SIDE-

DSK-9; DSK Board





DSK-9-B SIDE-1-646-028-11 DVS-6000/6000C

DSK-9(1-646-028-11) IC156 M-24 IC157 M-23 IC158 M-22 IC164 CNZ1 IC303 IC304 H - 22 H - 25 COP1 IC305 IC306 H - 28 J - 28 D 1 D-29 IC307 A - 2 0 N - 3 E 3 E 4 E 5 F 1 A - 29 I C 1 A - 28 IC 2
IC 3
IC 4
IC 5
IC 7
IC 8
IC 9
IC 2 0
IC 2 1
IC 2 2
IC 3 3
IC 3 4
IC 3 5
IC 3 6
IC 3 7
IC 3 8
IC 3 9
IC 5 1
IC 5 5
IC 5 6
IC 5 7
IC 5 8
IC 1 0 0 1
IC 1 0 1
IC 1 0 2 A - 25 A - 22 A - 22 B - 22 B - 22 B - 22 C - 27 C - 24 D - 29 C - 21 C - 16 C - 15 C - 11 B - 20 C - 19 C - 19 C - 19 A - 17 B - 17 B - 13 B - 13 B - 13 1C327 G-7 1C329 G-8 1C331 M-5 1C333 M-6 1C335 M-7 TP1 TP2 TP3 TP4 TP5 TP6 TP7 TP8 TP9 B-10 H-19 D-27 D-28 B - 22 B - 23 B - 25 B - 27 IC 102 D-28 IC 103 E-27 IC 104 E-28 IC 105 G-20 IC 106 G-22 B-24 D-25 D-17 D-14 D-18 | IC106 | G-22 | IC107 | G-23 | IC108 | F-25 | IC109 | H-27 | IC111 | D-25 | IC112 | D-17 | IC120 | D-15 | IC122 | G-14 | IC123 | G-15 | IC124 | G-16 | IC125 | D-12 | IC126 | H-9 | IC127 | H-11 | IC128 | H-11 | IC128 | IC127 | H-11 | IC128 | IC127 | H-11 | IC128 | IC128 | IC127 | H-11 | IC128 | IC127 H-10 IC128 H-11 IC129 H-12 IC130 D-9 IC131 H-17 IC132 H-18 IC133 G-20 IC133 G-20 IC135 A-7 IC136 D-7 IC139 D-5 IC140 A-5 IC142 A-4 IC143 A-8 IC144 B-8

IC145

IC148 IC149

IC150 IC151

IC152 IC153 C – 8 D – 4

F - 6 F - 7

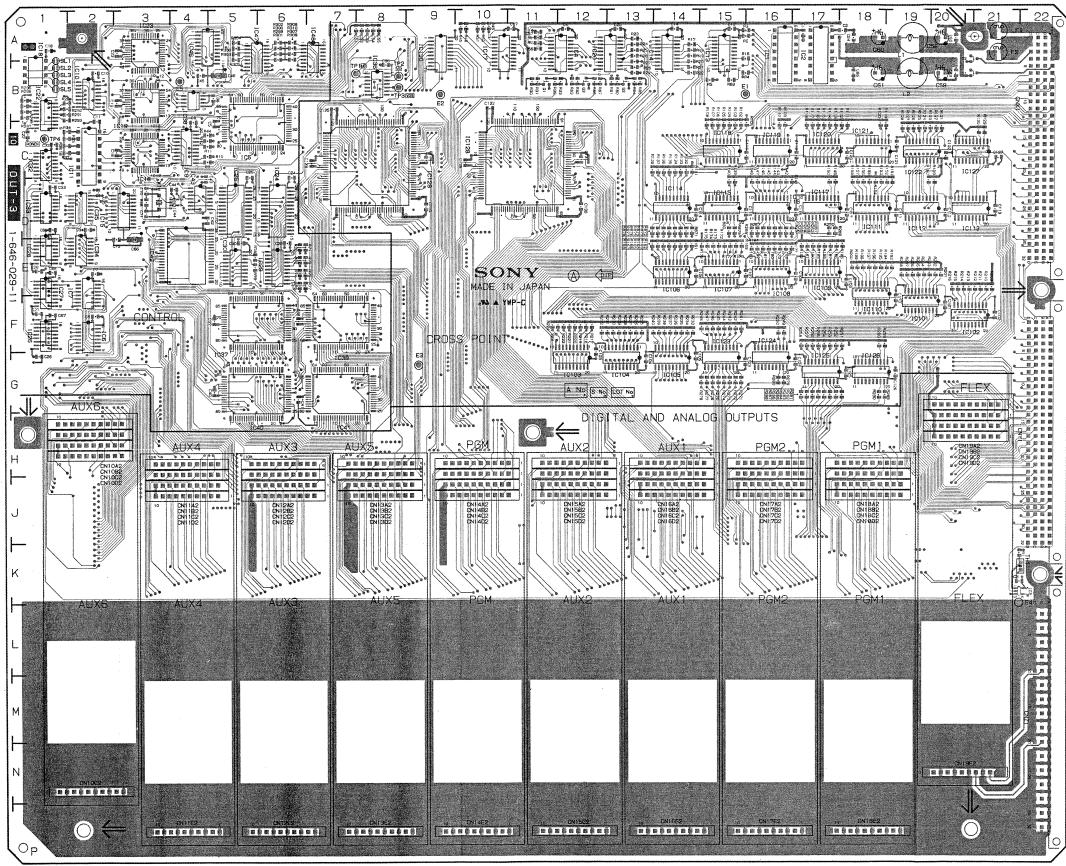
F - 8 F - 28

F-25 G-27

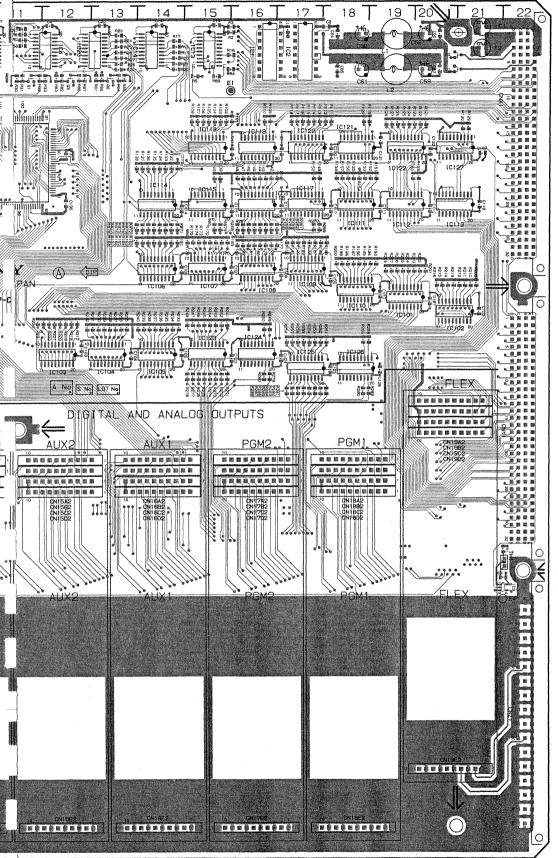
IC155 M-25

OUT-3: Output Processor Board

CNA10 H-2 IC19 C-3 CNA11 J-4 IC20 A-12 CNA12 J-6 IC22 B-1 CNA13 J-8 IC23 A-3 CNA14 J-10 IC24 C-6 CNA15 J-12 IC25 C-5 CNA16 J-14 IC26 F-1 CNA18 J-16 IC27 E-1 CNA18 J-16 IC27 E-1 CNA18 J-16 IC29 E-6 CNA19 H-20 IC29 E-6 CNB10 H-2 IC30 E-5 CNB10 H-2 IC30 C-5 CNB11 J-4 IC33 D-1 CNB11 J-4 IC33 D-1 CNB12 J-6 IC34 E-2 CNB13 J-8 IC35 D-2 CNB13 J-8 IC35 D-2 CNB14 J-10 IC36 B-8 CNB15 J-12 IC37 G-5 CNB16 J-12 IC37 G-5 CNB18 J-16 IC38 B-4 CNB17 J-16 IC39 B-6 CNB18 J-18 IC49 H-5 CNB19 H-20 IC49 H-5 CNB19 H-20 IC49 H-7 CNB19 H-20 IC49 IC49 CNC10 J-2 IC43 D-4 CNC10 J-2 IC43 D-4 CNC10 J-1 IC101 G-12 CNC10 J-1 IC101 G-12 CNC10 J-1 IC101 G-12 CNC10 J-1 IC101 G-12 CNC10 J-1 IC101 G-13 CNC10 J	O U T - 3 (1	-646-029	-11)		0 1 T 2
CNA11 J -6 C22 B -1 CNA13 J -6 C22 B -1 CNA13 J -8 C23 B -1 CNA13 J -10 C24 C -6 CNA15 J -12 C25 C -5 CNA16 J -14 C26 F -1 CNA17 J -16 C27 E -1 CNA17 CNA18 J -18 C28 E -1 CNA19 H -20 C29 E -6 CNA19 H -20 C32 C -1 CNB11 J -4 C33 D -1 CNB12 J -6 C34 E -2 CNB14 J -10 C33 C -1 CNB12 J -6 CNB15 J -12 CNB -6 CNB -6				_	$\begin{bmatrix} 0 & 1 & 1 & 2 \\ A & \cdot & \cdot & 0 \end{bmatrix}$
CNA19 H-20 IC29 E-5 CNB10 H-2 IC30 E-5 CNB10 H-2 IC32 C-1 CNB11 J-4 IC38 D-1 CNB12 J-6 IC34 E-2 CNB13 J-8 IC35 D-2 CNB14 J-10 IC38 B-8 CNB15 J-12 IC37 G-5 CNB16 J-14 IC38 B-4 CNB17 J-16 IC39 G-7 CNB18 J-18 IC40 H-5 CNB18 J-18 IC40 H-5 CNB18 J-18 IC40 H-5 CNB19 H-20 IC41 H-7 CNC10 J-2 IC43 D-4 CNC11 J-4 IC44 D-4 CNC12 J-6 IC46 A-4 CNC12 J-6 IC46 A-4 CNC12 J-6 IC46 A-4 CNC13 J-12 IC102 F-20 CNC16 J-14 IC103 G-12 CNC16 J-14 IC104 G-13 CNC16 J-14 IC105 G-14 CNC19 J-2 IC108 F-16 CND10 J-2 IC108 F-16 CND10 J-2 IC108 F-16 CND10 J-2 IC108 F-16 CND11 J-4 IC109 E-17 CND12 J-6 IC110 F-18 CND13 J-8 IC111 D-18 CND14 J-10 IC112 D-19 CND15 J-12 IC108 E-14 IC107 E-15 CND16 J-14 IC115 D-15 CND18 J-18 IC116 D-17 CND19 J-2 IC113 D-20 CND16 J-14 IC116 D-17 CND19 J-16 IC115 D-15 CND10 J-2 IC113 D-20 CND16 J-14 IC115 D-15 CND19 J-18 IC12C C-19 CND16 J-19 IC128 CND16 J-19 IC128 CND17 H-2 IC128 CND18 IC129 D-9 CND16 J-17 IC118 CNE19 P-18 IC125 CNE19 P-18 IC125 CNE19 P-18 IC127 CNE19 P-18 IC127 CNE10 P-18 IC128 CNE19 P-19 IC129 CNE19 P-19 CNE19 P-1	CNA11 CNA12 CNA13 CNA14 CNA15 CNA16 CNA17	J - 4 J - 6 J - 8 J - 1 0 J - 1 2 J - 1 4 J - 1 6	1 C 2 0 1 C 2 2 1 C 2 3 1 C 2 4 1 C 2 5 1 C 2 6 1 C 2 7	A - 1 2 B - 1 A - 3 C - 6 C - 5 F - 1 E - 1	M
CNB11 J -4 IC 3	CNA19	H - 20	IC29 IC30	E - 6 E - 5	6297 0 634 0 634 0 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
CNC14 J-10	CNB11 CNB12 CNB13 CNB14 CNB15 CNB16 CNB17 CNB18	J - 4 J - 6 J - 8 J - 1 0 J - 1 2 J - 1 4 J - 1 6 J - 1 8	IC 3 3 IC 3 4 IC 3 5 IC 3 6 IC 3 7 IC 3 8 IC 3 9 IC 4 0 IC 4 1	D-1 E-2 D-2 B-8 G-5 B-4 G-7 H-5 H-7	
CND10 J -2 IC108 F -16 CND11 J -4 IC109 E -17 CND12 J -6 IC110 F -18 CND13 J -8 IC111 D -18 CND13 J -8 IC111 D -18 CND14 J -10 IC112 D -19 CND15 J -12 IC113 D -20 CND16 J -14 IC114 D -14 CND17 J -16 IC115 D -15 CND18 J -18 IC116 D -17 CND18 J -18 IC116 D -17 IC117 CND19 H -2 IC117 D -17 IC118 C -16 CNE11 P -4 IC120 C -17 CNE12 P -6 IC121 C -18 CNE13 P -8 IC122 C -19 CNE14 P -10 IC123 F -15 CNE15 P -12 IC124 F -16 CNE16 P -14 IC125 G -17 CNE17 P -16 IC126 G -18 CNE18 P -18 IC127 C -20 CNE18 P -18 IC127 C -20 CNE18 P -18 IC127 C -20 CNE19 N -20 IC128 C -10 IC129 D -9 CNX1 B -21 IC130 A -15 IC14 A -13 IC15 B -2 IC16 B -	CNC11 CNC12 CNC13 CNC14 CNC15 CNC16 CNC17 CNC18	J - 4 J - 6 J - 8 J - 1 0 J - 1 2 J - 1 4 J - 1 6 J - 1 8	IC 4 3 IC 4 4 IC 4 6 IC 4 7 IC 1 0 1 IC 1 0 2 IC 1 0 3 IC 1 0 4 IC 1 0 5 IC 1 0 6	D-4 D-4 A-4 A-5 F-19 F-20 G-12 G-13 G-14 E-14	- S-S C67
CNE10 N-2 IC119 C-16 CNE11 P-4 IC120 C-17 CNE12 P-6 IC121 C-18 CNE13 P-8 IC122 C-19 CNE14 P-10 IC123 F-15 CNE15 P-12 IC124 F-16 CNE16 P-14 IC125 G-17 CNE17 P-16 IC126 G-18 CNE17 P-16 IC126 G-18 CNE18 P-18 IC127 C-20 CNE19 N-20 IC128 C-10 IC129 D-9 CNX1 B-21 IC130 A-9 CNX1 B-21 IC130 A-9 CNX1 M-22 Q3 B-13 CNZ1 M-22 Q3 B-12 D1 B-20 TH1 K-22 D2 B-20 TP1 B-7 E1 B-15 TP2 B-8 E2 B-9 TP3 B-8 E3 G-9 TP4 C-1 E4 L-22 E5 B-4 X1 D-3 F1 A-21 F2 A-21 IC1 A-16 IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC11 C-2 IC11 A-15 IC14 A-13 IC15 D-2 IC16 D-3	CND11 CND12 CND13 CND14 CND15 CND16 CND17 CND17	J - 4 J - 6 J - 8 J - 1 0 J - 1 2 J - 1 4 J - 1 6 J - 1 8	IC108 IC109 IC110 IC111 IC112 IC113 IC114 IC115 IC116 IC117	F-16 E-17 F-18 D-18 D-19 D-20 D-14 D-15 D-17	AUX6
CNZ1 M-22 Q3 B-13 D1 B-20 TH1 K-22 D2 B-20 TP1 B-7 E1 B-15 TP2 B-8 E2 B-9 TP3 B-8 E3 G-9 TP4 C-1 E4 L-22 E5 B-4 X1 D-3 F1 A-21 F2 A-21 IC1 A-16 IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC13 A-15 IC14 A-13 IC15 D-2 IC16 D-3	CNE11 CNE12 CNE13 CNE14 CNE15 CNE16 CNE17 CNE18 CNE19	P-4 P-6 P-8 P-10 P-12 P-14 P-16 P-18 N-20	IC 1 1 9 IC 1 2 0 IC 1 2 1 IC 1 2 2 IC 1 2 3 IC 1 2 4 IC 1 2 5 IC 1 2 6 IC 1 2 7 IC 1 2 8 IC 1 2 9	C-16 C-17 C-18 C-19 F-15 F-16 G-17 G-18 C-20 C-10 D-9	
D1 B-20 TH1 K-22 D2 B-20 TP1 B-7 E1 B-15 TP2 B-8 E2 B-9 TP3 B-8 E3 G-9 TP4 C-1 E4 L-22 E5 B-4 X1 D-3 F1 A-21 F2 A-21 IC1 A-16 IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC11 C-2 IC11 C-2 IC13 A-15 IC14 A-13 IC15 D-2 IC16 D-3	CNY1	H - 22			AUX6
D2 B-20 E1 B-15 TP2 B-8 E2 B-9 TP3 B-8 E3 G-9 TP4 C-1 E4 L-22 E5 B-4 X1 D-3 F1 A-21 F2 A-21 IC1 A-16 IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC11 A-13 IC15 D-2 IC16 D-3					
E2 B-9 TP3 B-8 E3 G-9 TP4 C-1 E4 L-22 E5 B-4 X1 D-3 F1 A-21 F2 A-21 IC1 A-16 IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC13 A-15 IC14 A-13 IC15 D-2 IC16 D-3	D 2	B – 20	T P 1	B – 7	
F2 A-21 IC1 A-16 IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC13 A-15 IC14 A-13 IC15 D-2 IC16 D-3	E 2 E 3 E 4	B - 9 G - 9 L - 2 2	TP3 TP4	B – 8 C – 1	 M
IC2 A-17 IC3 K-22 IC4 A-12 IC5 C-5 IC6 F-2 IC7 E-2 IC9 C-4 IC10 B-2 IC11 C-2 IC13 A-15 IC14 A-13 IC15 D-2 IC16 D-3					
	IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 9 IC 10 IC 11 IC 13 IC 14 IC 15	A-17 K-22 A-12 C-5 F-2 E-2 C-4 B-2 C-2 A-15 A-13 D-2			

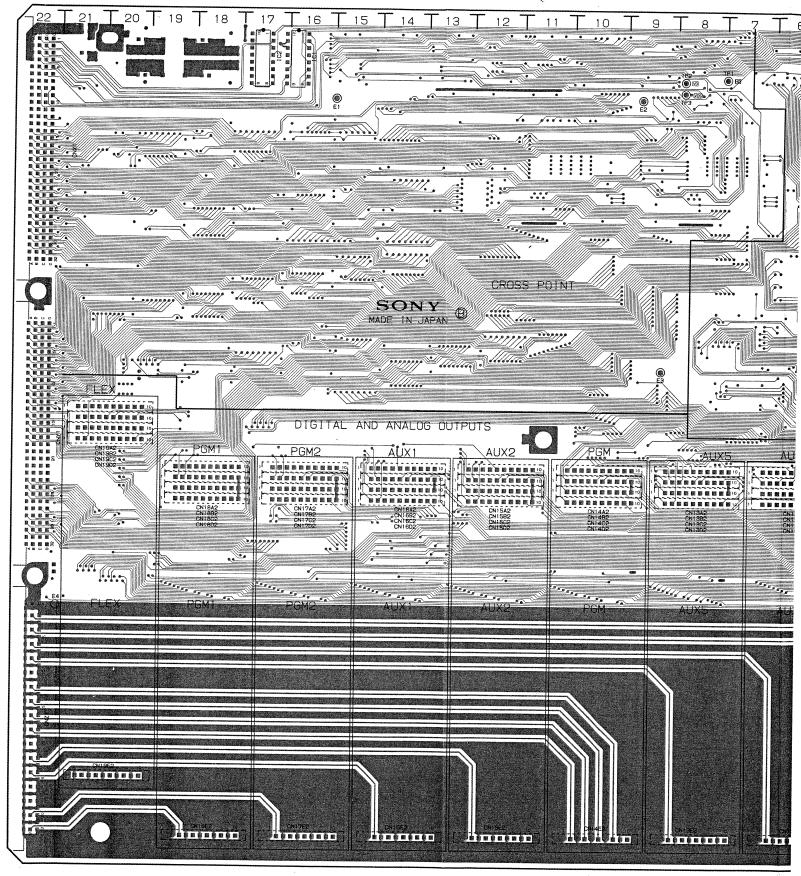


OUT-3 -A SIDE-1-646-029-11 DVS-6000/6000C

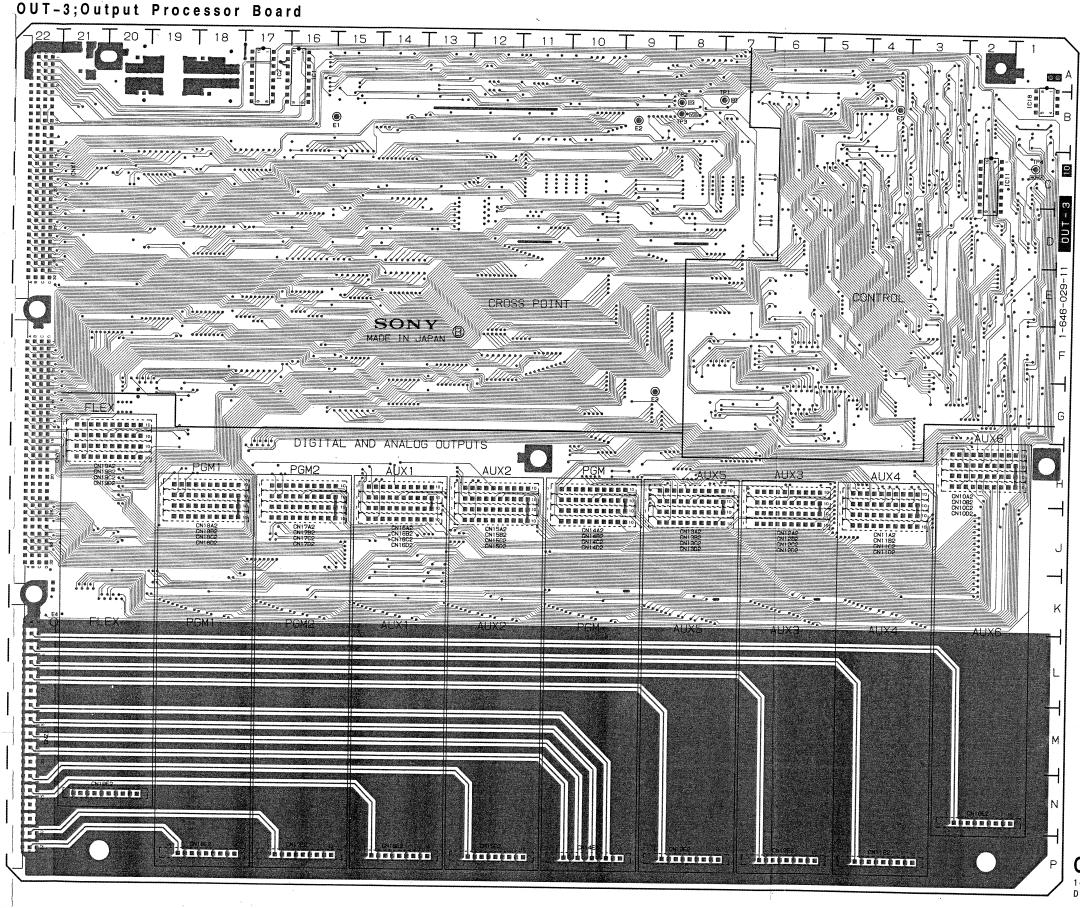


OUT-3 -A SIDE-1-646-029-11 DVS-6000/6000C

OUT-3; Output Processor Board



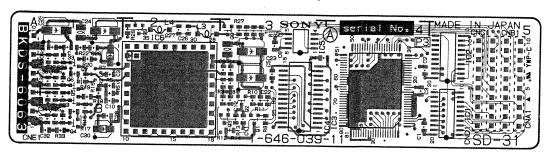
OUT-3(1-646-029-11)



OUT-3-B SIDE-1-646-029-11 DVS-6000/6000C

CNA11 IC20 A - 12 CNA12 J-6 IC22 IC23 A - 3 CNA14 J-10 CNA15 J-12 IC24 I C 2 5 CNA16 J-14 CNA17 J-16 CNA18 J-18 IC27 IC 28 CNA19 H-20 IC 29 IC30 CNB10 H-2 IC32 CNB11 J-4 CNB12 J-6 IC34 CNB13 J-8 IC35 CNB14 J-10 IC36 CNB15 J-12 IC37 CNB16 J-14 CNB17 J-16 1039 CNB18 J-18 IC40 CNB19 H-20 IC41 IC 42 CNC10 J-2 CNC11 J-4 IC 4 4 CNC12 J-6 CNC13 J-8 IC 47 IC 101 CNC15 J-12 CNC16 J-14 IC103 G-12 CNC17 J-16 IC104 CNC18 J-18 IC105 CNC19 H-20 IC106 F - 14 CND10 J-2 IC108 CND11 J-4 CND12 J-6 IC109 IC110 IC111 CND13 CND14 J-10 CND15 J-12 IC113 D-20 CND16 J-14 IC114 CND17 J-16 IC115 CND18 J-18 IC116 D-17 IC117 D-17 CND19 H-2 IC118 CNE10 N-2 IC119 C-16 CNE11 P-4 IC120 CNE12 IC121 C-18 CNE13 P-8 IC122 CNE14 P-10 IC123 F-15 CNE15 P-12 IC124 F-16 CNE16 P - 14 IC125 P-16 IC126 G-18 CNE18 P-18 IC127 C-20 CNE19 N - 20 IC128 C-10 IC129 D-9 CNX1 B - 21 IC130 CNY1 H-22 B-11 CNZ1 M-22 QЗ B-12 B-20 TH1 K-22 D 2 E 1 TP2 B - 8 E 2 E 3 G ~ 9 TP4 C - 1 E 4 L - 22 E 5 B - 4 X 1 D - 3 A - 2 1 F 2 I C 1 A-16 LC 3 1 C 4 A - 12 IC6 IC 9 IC10 A – 15 A – 13 IC 13 D - 3

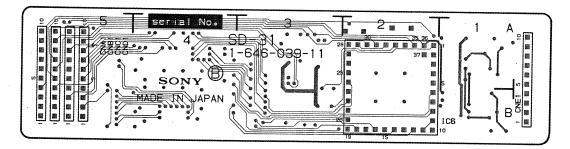
SD-31; Digital Edit PVW/REF Output Board



SD-31-A SIDE-1-646-039-11 BKDS-6063

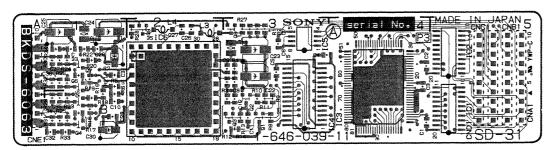


*;B SIDE



SD-31-B SIDE-1-646-039-11 BKDS-6063

SD-31; Digital Edit PVW/REF Output Board



SD-31-A SIDE-1-646-039-11 BKDS-6063

S D - 3 1	1 (1 - 6 4 6 - 0 3 9 - 1 1
CNA1	* A - 5
CNB1	* A – 5
CNC1	* A – 5
CND1	* A – 5
CNE1	* B – 1
I C 1	B - 5
I C 2	A - 5
IC3	B - 4
I C 4	
1 C 5 1 C 6	A – 3 A – 2
100	K-2
Q 1	B – 3
Q 2	B - 3
Q3	B – 3
Q 4	B – 1
Q 5	B – 1
Q 6	A - 1
Q7	A – 1
Q8 Q9	A - 3
	A – 2

SONY

SONY

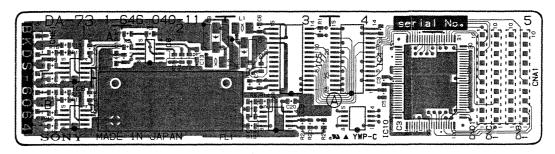
MADE IN APAN

BE SONY

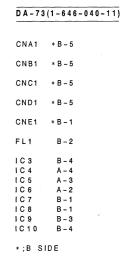
S

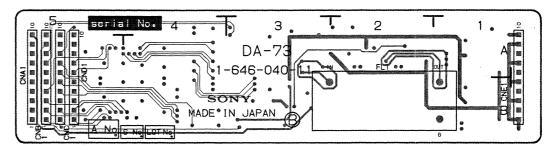
SD-31-B SIDE-1-646-039-11 BKDS-6063

(DVS-6000ONLY)
DA-73; Analog Output Board



DA-73 - A SIDE-1-646-040-11 BKDS-6064





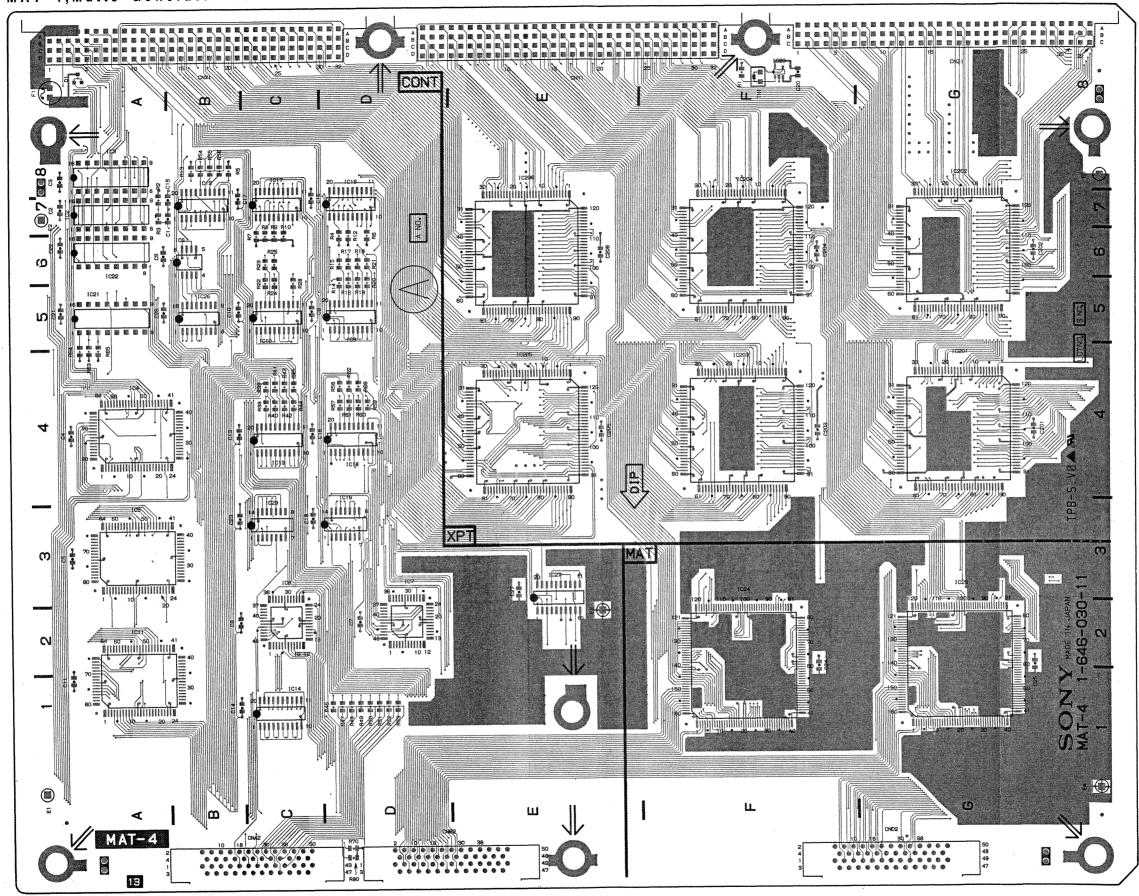
DA-73 -B SIDE-1-646-040-11 BKDS-6064

MAT-4; Matte Generator Board

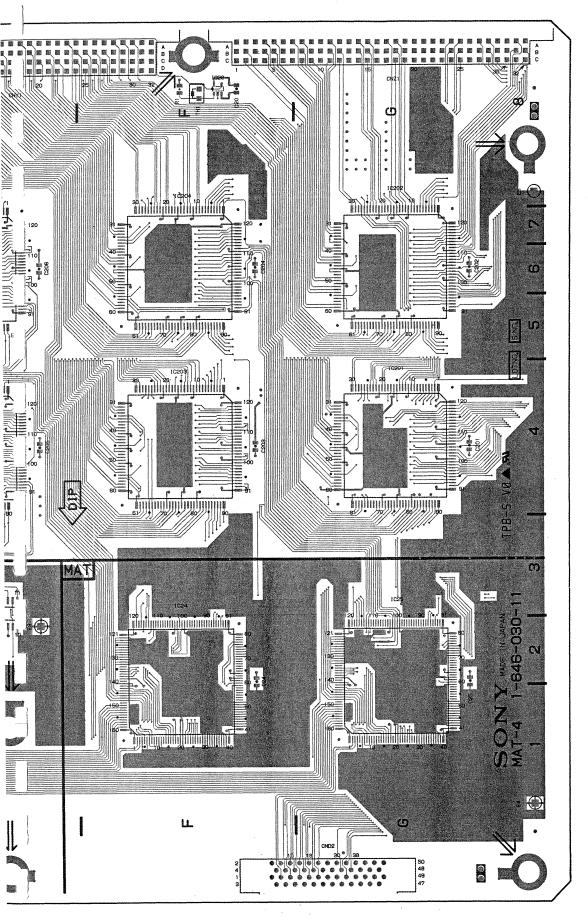
MAT-4(1-646-030-11) CNA2 C-1 CNB2 D-1 CND2 CNX1 CNY1 E - 8 CNZ1 E 2 E 3 E 4 A - 7 E - 2 E 5 G - 8 A – 8 I C 3 I C 5 A - 3 I C 7 D - 3 C - 3 D-5 C-5 A-2 C-4 IC13 IC14 IC15 IC18 IC20 IC21 A - 6 C - 4 IC23 IC 2 4 IC25 IC26 G - 3 E – 3 G – 4 IC27 IC201 F - 4 10203 IC204 1C205 E-4 1C206 E-8

F - 8

TH1

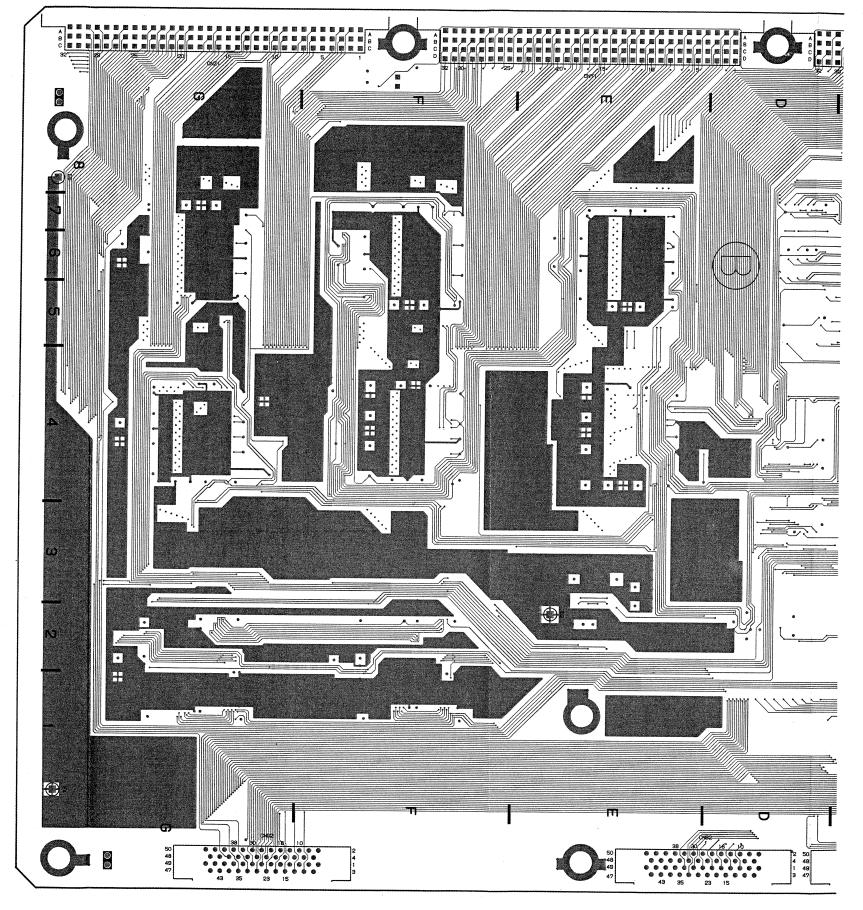


MAT-4-A SIDE-1-646-030-11 DVS-6000/6000C

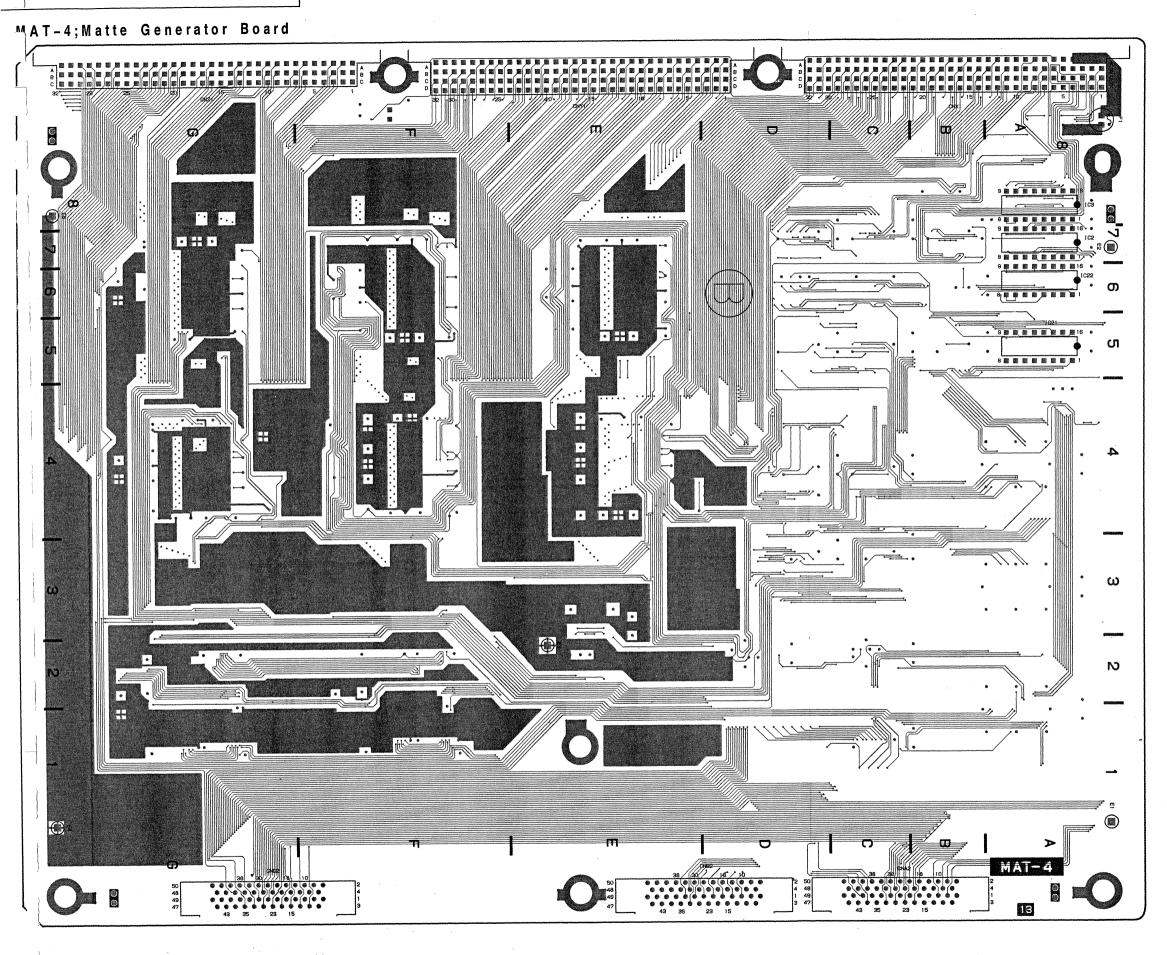


MAT-4 - A SIDE-1-646-030-11 DVS-6000/6000C

MAT-4; Matte Generator Board



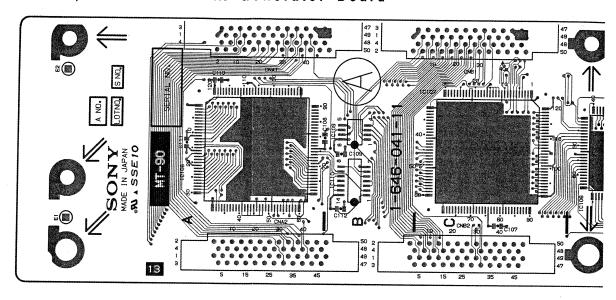
MAT-4(1-646-030-11)

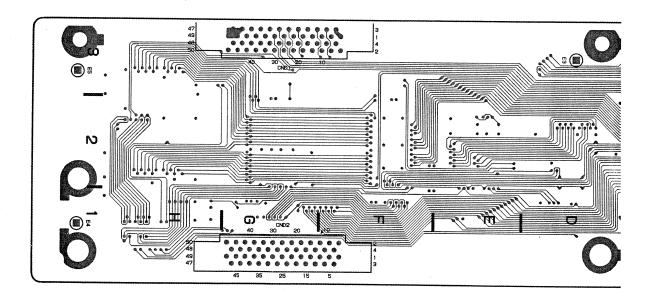


CNA2 C-1 CNB2 D-1 CND2 G-1 CNX1 A-8 CNY1 E - 8 CNZ1 A - 7 E - 2 G - 1 G-8 A ~ 8 I C 3 1C205 E-4 1C206 E-8 TH1 F-8

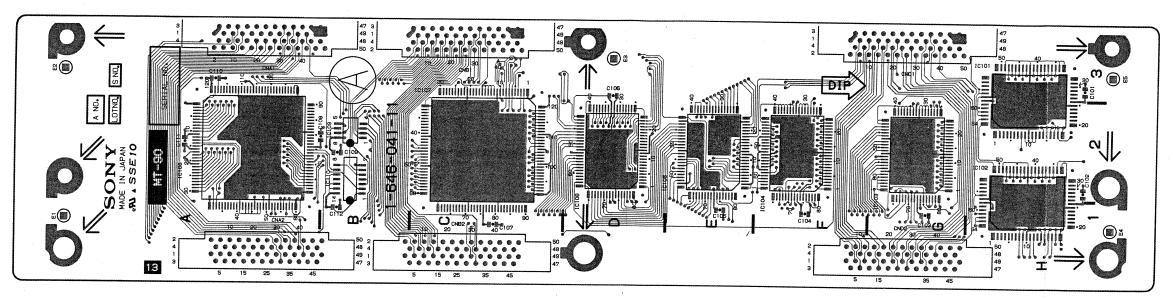
MAT-4-B SIDE1-646-030-11
DVS-6000/6000C

MT-90; BKGD Color MIX Generator Board



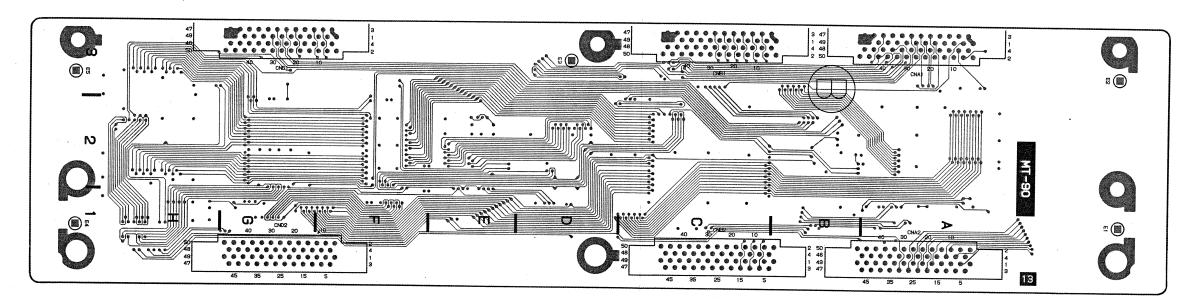


MT-90; BKGD Color MIX Generator Board

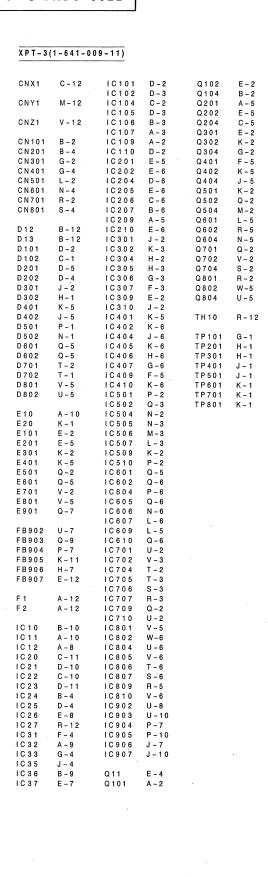


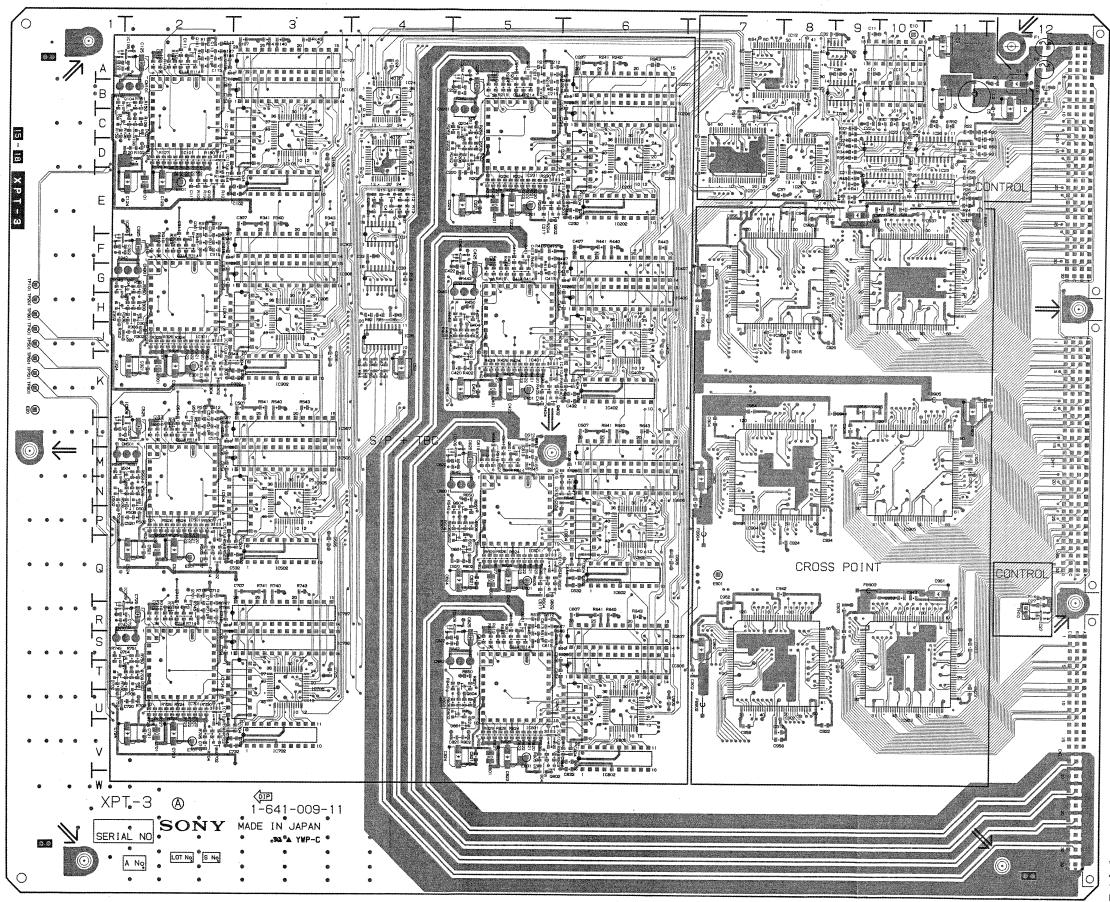
M T - 9 0	(1-646-041-11)	
CNA1	A - 3	
CNA2	A - 1	
CNB1	C - 3	
CNB2	C – 1	
CND4		
CND1 CND2	G - 3	
CND2	G - 1	
E 1	A - 1	
E 2	A - 3	
E 3	D - 3	
E 4	H – 1	
E 5	H - 3	
IC101	H-3	
IC102	H – 2	
IC103	G - 1	
IC104	F – 1	
IC105	E – 2	
IC106	D – 1	
IC 107	C-2	
IC108	A – 2	
IC109	B – 2	
IC110	B - 2	

MT-90-A SIDE-

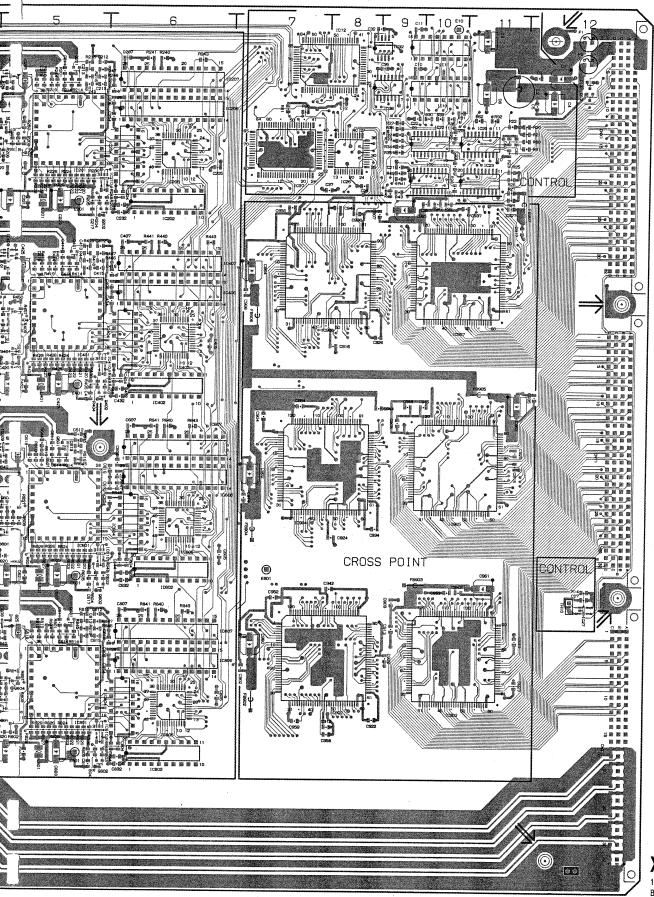


MT-90-B SIDE-





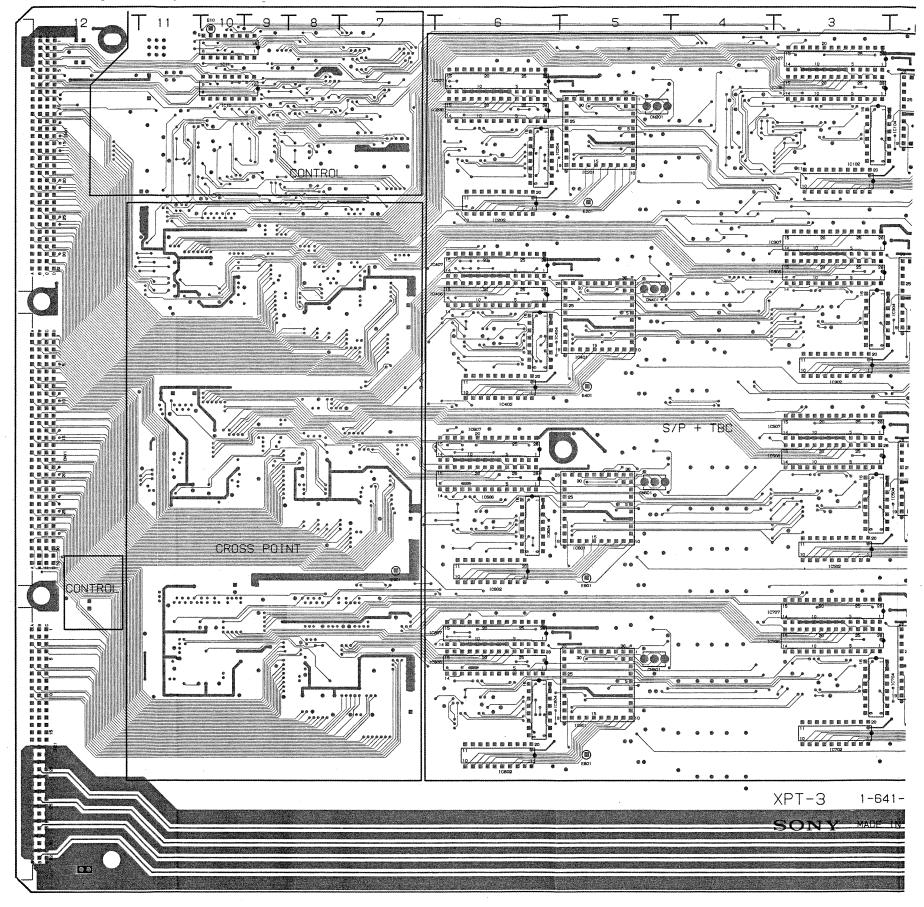
XPT-3-A
1-641-009-11
BKDS-8022

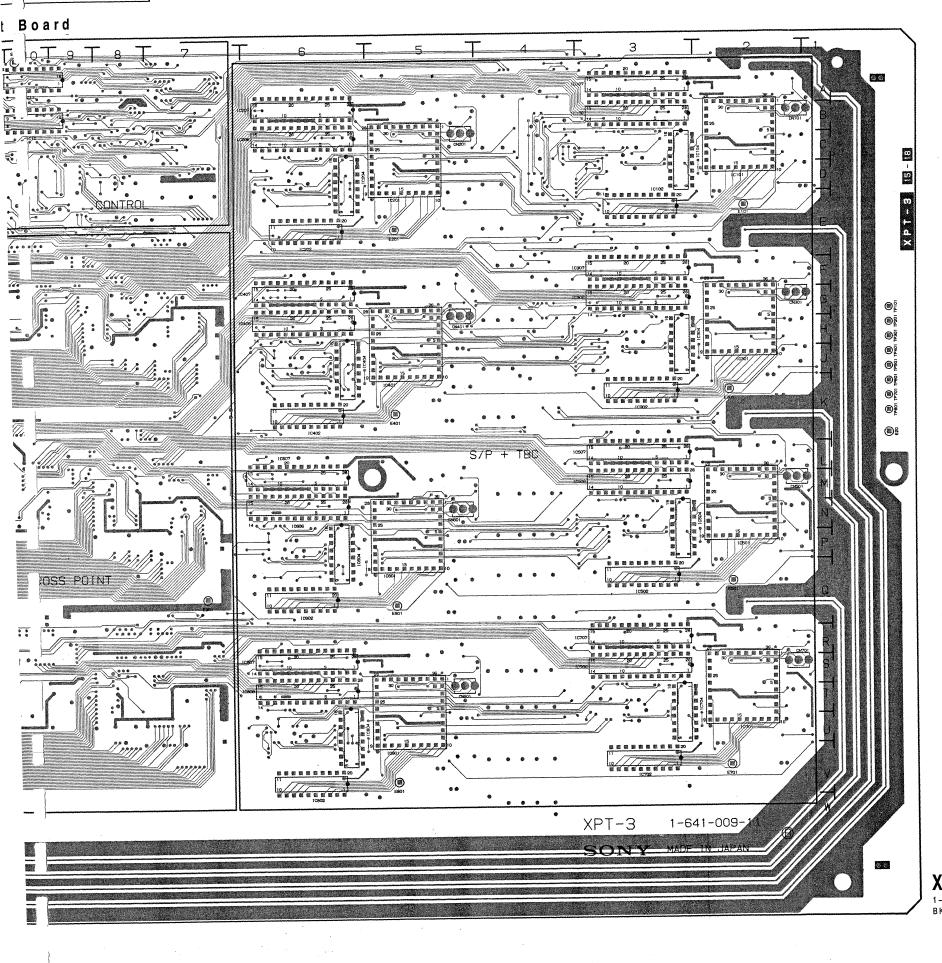


XPT-3 - A SIDE-BKDS-8022

BKDS-8022 XPT-3 XPT-3 BKDS-8022

XPT-3; Digital Input Board



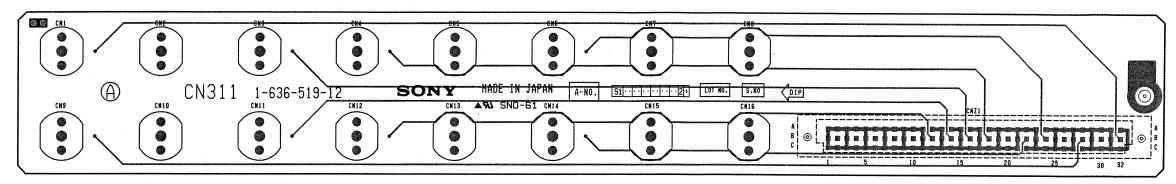


Q 102 Q 104 Q 201 IC101 IC102 IC104 CNX1 C-12 D-3 C-2 D-3 B-3 A-3 CNY1 Q 2 0 2 Q 2 0 4 CNZ1 IC106 Q 3 0 1 Q 3 0 2 CN101 IC109 Q304 Q401 CN201 CN301 CN401 G – 2 G – 4 Q 4 0 2 Q 4 0 4 Q 5 0 1 Q 5 0 2 K - 5 J - 5 K - 2 Q - 2 M - 2 L - 5 R - 5 N - 5 Q - 2 V - 2 S - 2 W - 5 U - 5 CN 501 CN 601 L - 2 N - 4 R - 2 S - 4 CN 701 CN 801 Q 5 0 4 Q 6 0 1 Q 6 0 2 Q 6 0 4 D 1 2 B-12
B-12
D-2
C-1
D-5
D-4
J-2
H-1
S-5
P-1
N-1
Q-5
T-2
T-1
V-5 D13 D101 Q 701 Q 702 Q 704 Q 801 D102 D201 D 2 0 2 D 3 0 1 Q802 Q804 D302 D401 TH10 D 4 0 2 D 5 0 1 D502 D601 TP101 TP201 TP301 D602 J = 1 J = 1 K = 1 K = 1 K = 1 TP401 TP501 D701 D702 TP601 TP701 D802 TP801 A - 10 K - 1 E - 2 E - 5 K - 2 K - 5 Q - 2 Q - 5 V - 2 V - 5 Q - 7 E 1 0 E 2 0 E 1 0 1 E 2 0 1 E 3 0 1 E 4 0 1 E 5 0 1 E 6 0 1 E 7 0 1 E 8 0 1 E 9 0 1 IC507 L - 3 K - 2 P - 2 Q - 5 Q - 6 P - 6 Q - 6 L - 6 L - 5 IC510 IC601 IC 6 0 2 IC605 IC607 FB902 U-7 FB903 Q-9 FB904 P-7 IC610 IC701 IC702 FB905 FB906 1 C 7 0 5 1 C 7 0 6 FB907 A – 12 A – 12 IC707 IC709 F 1 F 2 B-10 A-10 A-8 C-11 D-10 C-10 D-11 B-4 E-8 R-12 F-4 J-4 B-9 G-4 J-4 IC 1 0 IC 1 1 IC 1 2 IC 2 0 IC 2 1 IC 2 2 IC 2 3 IC 2 4 IC 2 5 IC 2 6 IC 2 7 IC 3 1 IC 3 1 IC 3 3 IC 3 5 IC 3 7 IC801 IC801 V-5
IC802 W-6
IC804 U-6
IC805 V-6
IC806 T-6
IC807 R-5
IC810 V-6
IC800 U-8 IC903 U-10 IC904 P-7 IC905 IC907 J-10 Q11 E-4 Q101 A-2

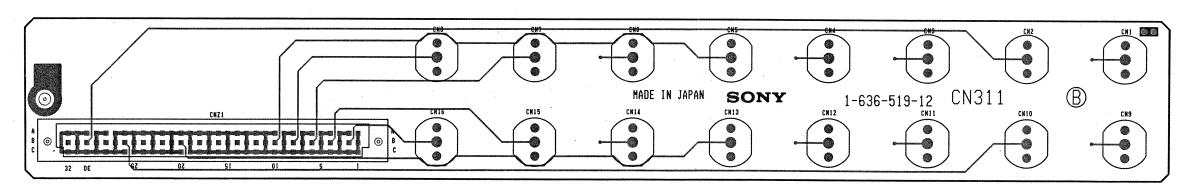
XPT-3(1-641-009-11)

XPT-3-B SIDE-1-641-009-11 BKDS-8022

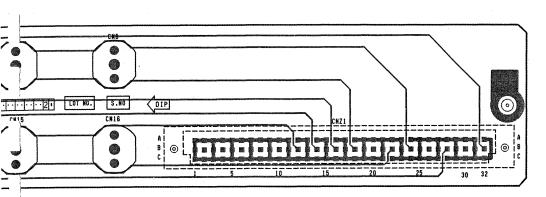
CN-311; Output Connector Board



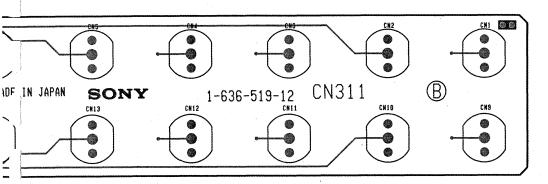
CN-311 -A SIDE-1-636-519-12 DVS-6000/6000C



CN-311-B SIDE-

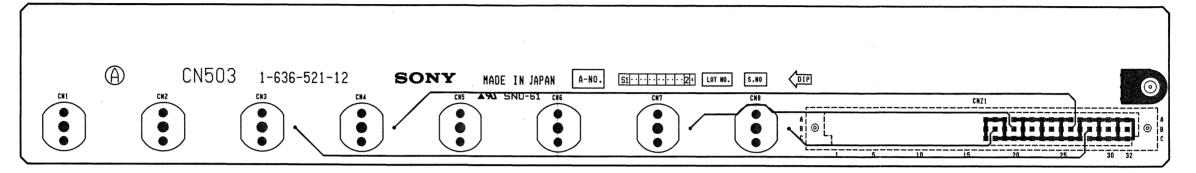


CN-311 -A SIDE-1-636-519-12 DVS-6000/6000C

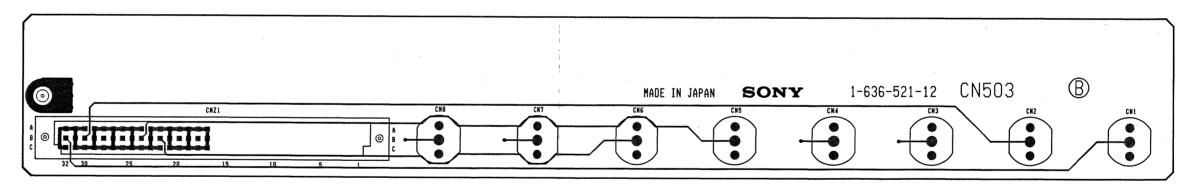


CN-311-B SIDE-1-636-519-12 DVS-6000/6000C

(DVS-6000 ONLY) CN-503; Chroma Key Input Connector

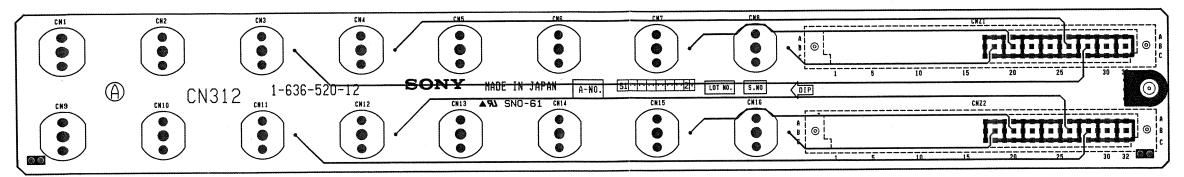


CN-503 -A SIDE-1-636-512-12 DVS-6000

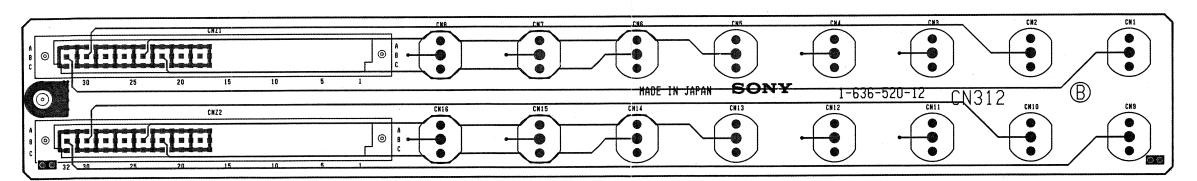


CN-503-B SIDE-1-636-512-12 DVS-6000

CN-312; Primary Input Connector Board

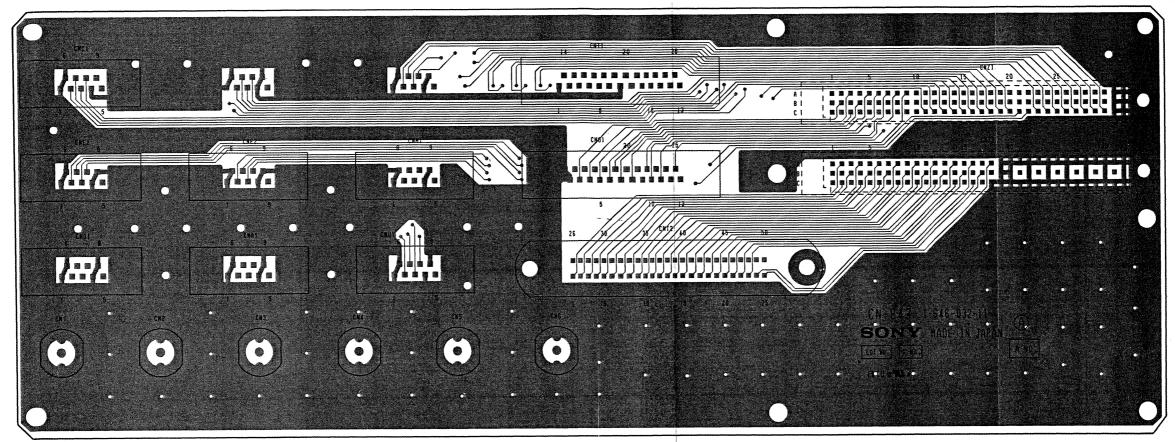


CN-312-A SIDE-1-636-520-12 DVS-6000/6000C

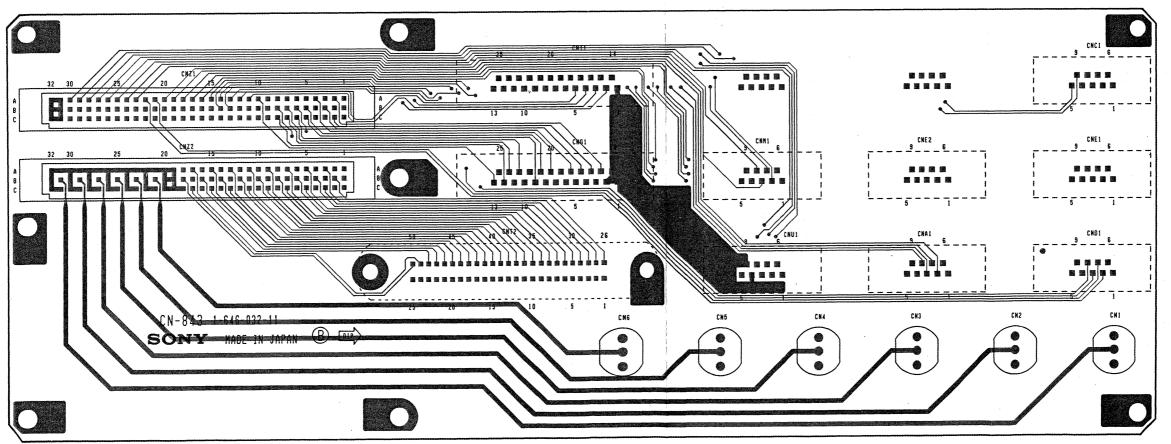


CN-312 -B SIDE-1-636-520-12 DVS-6000/6000C

CN-843; Control Connector Board

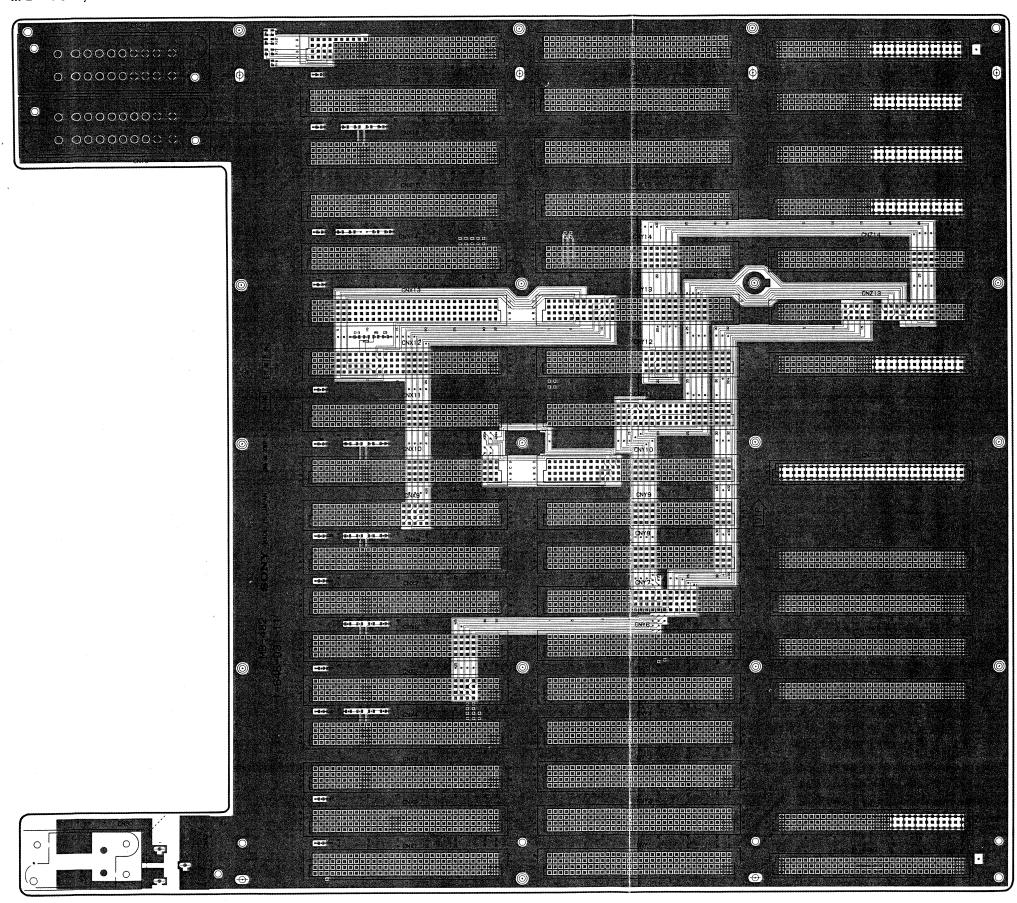


CN-843 -A SIDE-1-646-032-11 DVS-6000/6000C



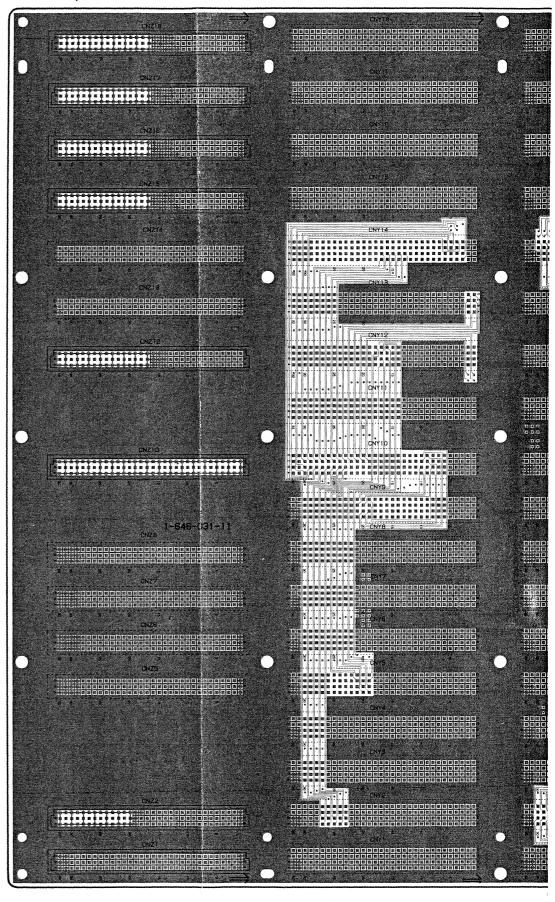
CN-843 -B SIDE-1-646-032-11 DVS-6000/6000C

MB-482; Mother Board

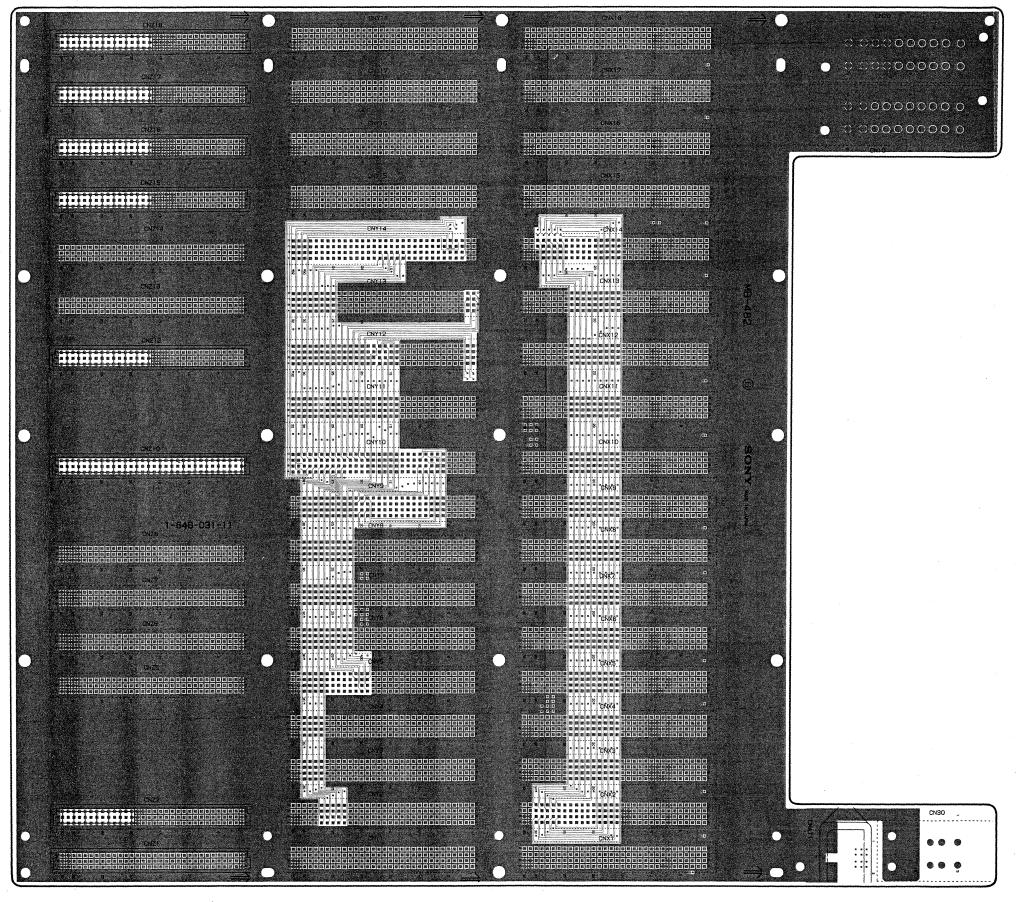


MB-482-A SIDE-1-646-031-11 DVS-6000/6000C

MB-482; Mother Board



MB-482; Mother Board



MB-482 -B SIDE-1-646-031-11 DVS-6000/6000C RE-96(1-646-847-11)

B-2 A-5 A-6 C-8 L-3 L-4 L-5 L-7 F-8 E-1 F-1

C-6 D-6 E-5 D-5 F-6 D-1 G-2 G-4 G-7 C-7 D-7 H-8 H-8 J-8

A - 7

B - 3

D - 5 F - 5

H – 8

J - 8 J - 8

F - 1

D - 8

LF1

Q 5 Q 6

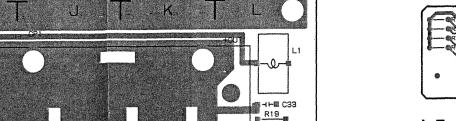
RV2 RV3

TH1

VDR1

CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
CN14
CN15
CN16
CN17

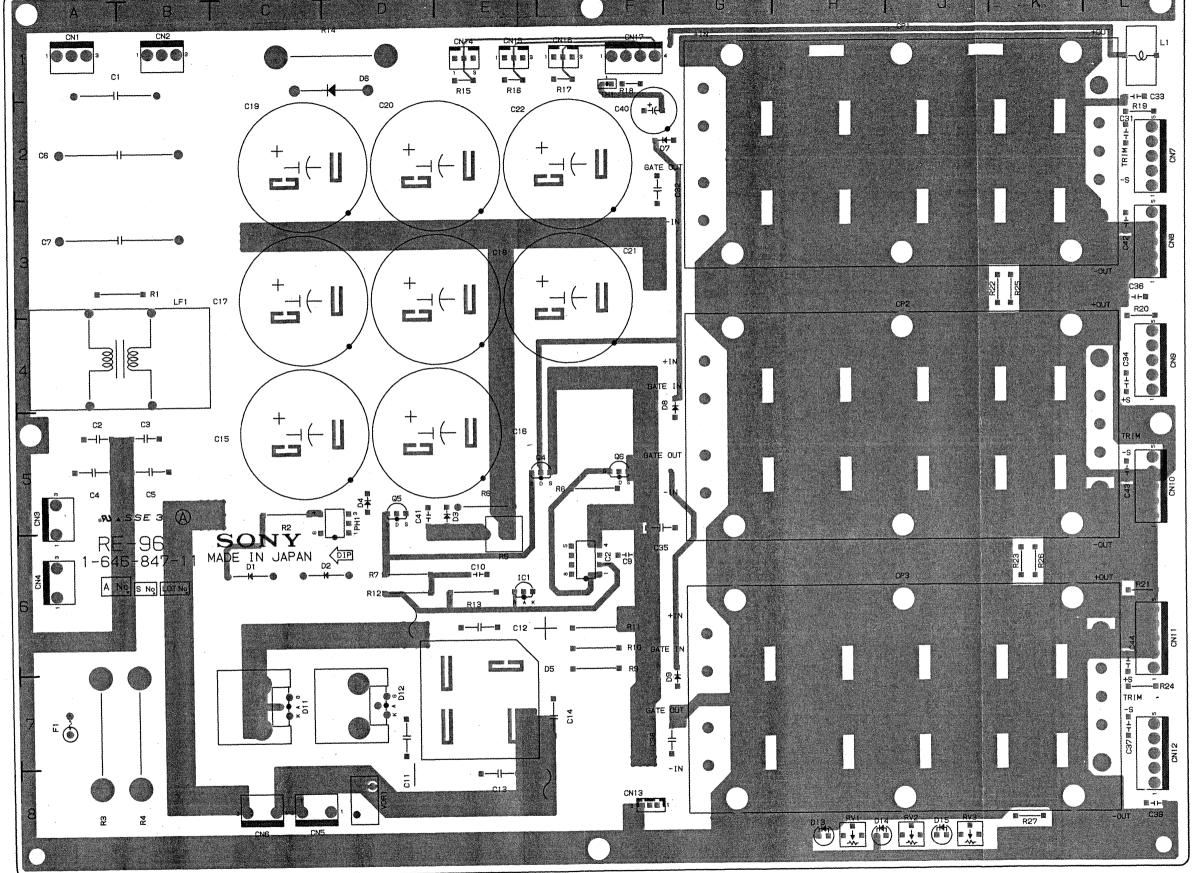
RE-96; Power Supply AC-DC Board



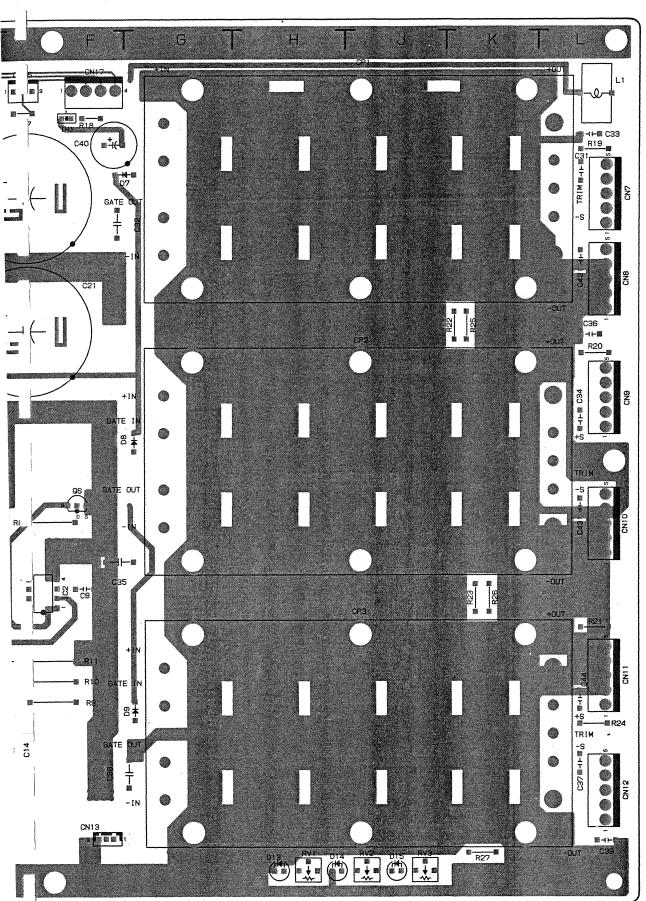


LE-7

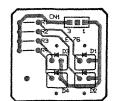
LE – 1-631-4



RE-96 - A SIDE 1-646-847-11 DVS-6000/6000C



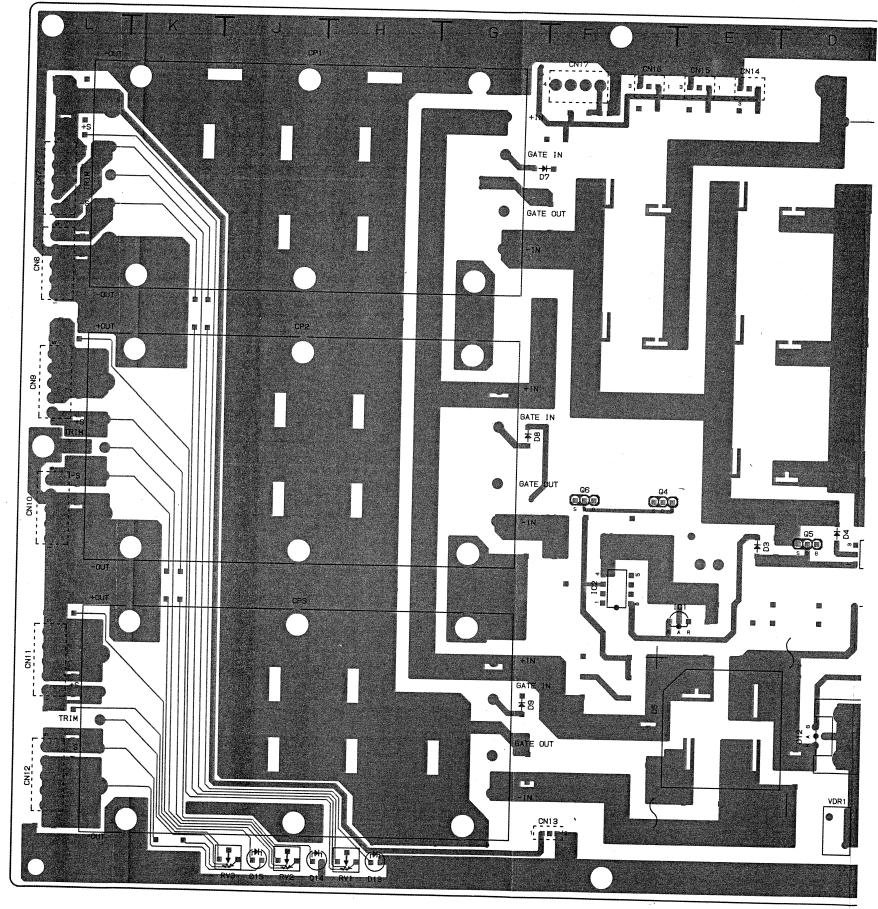
LE-76; Power LED Board



LE-76-A SIDE-

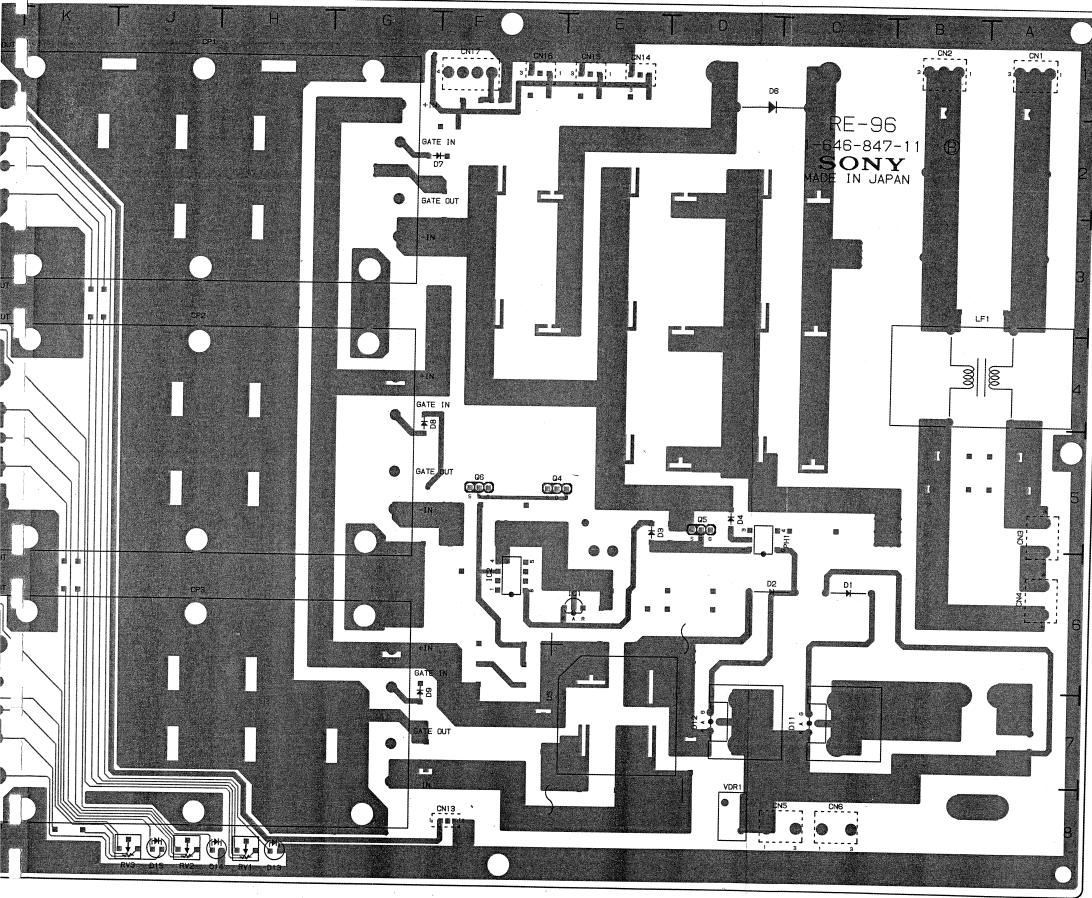
RE-96-A SIDE-

RE-96; Power Supply AC-DC Board



wer Supply AC-DC Board

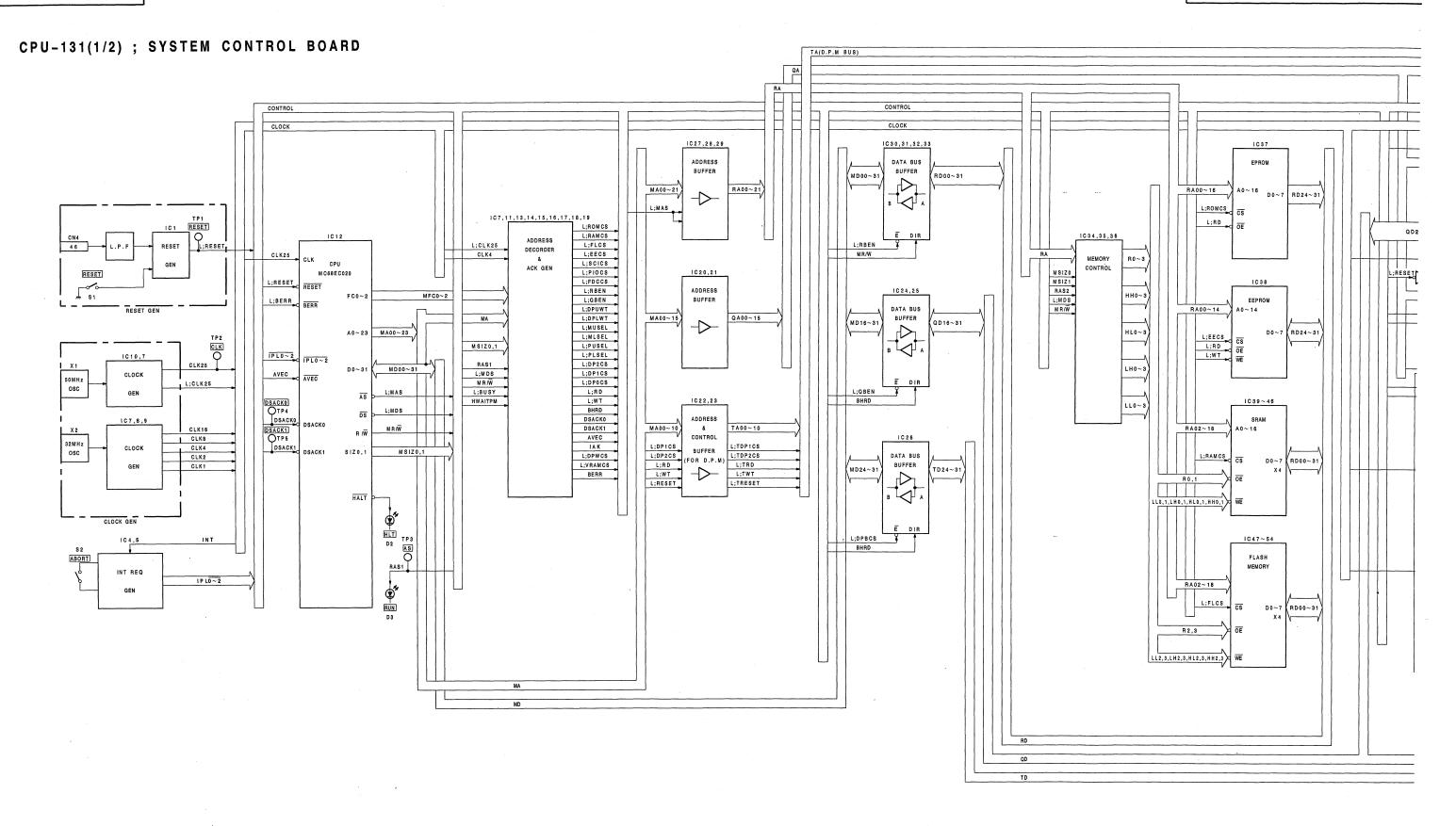
RE-96 DVS-6000/6000C

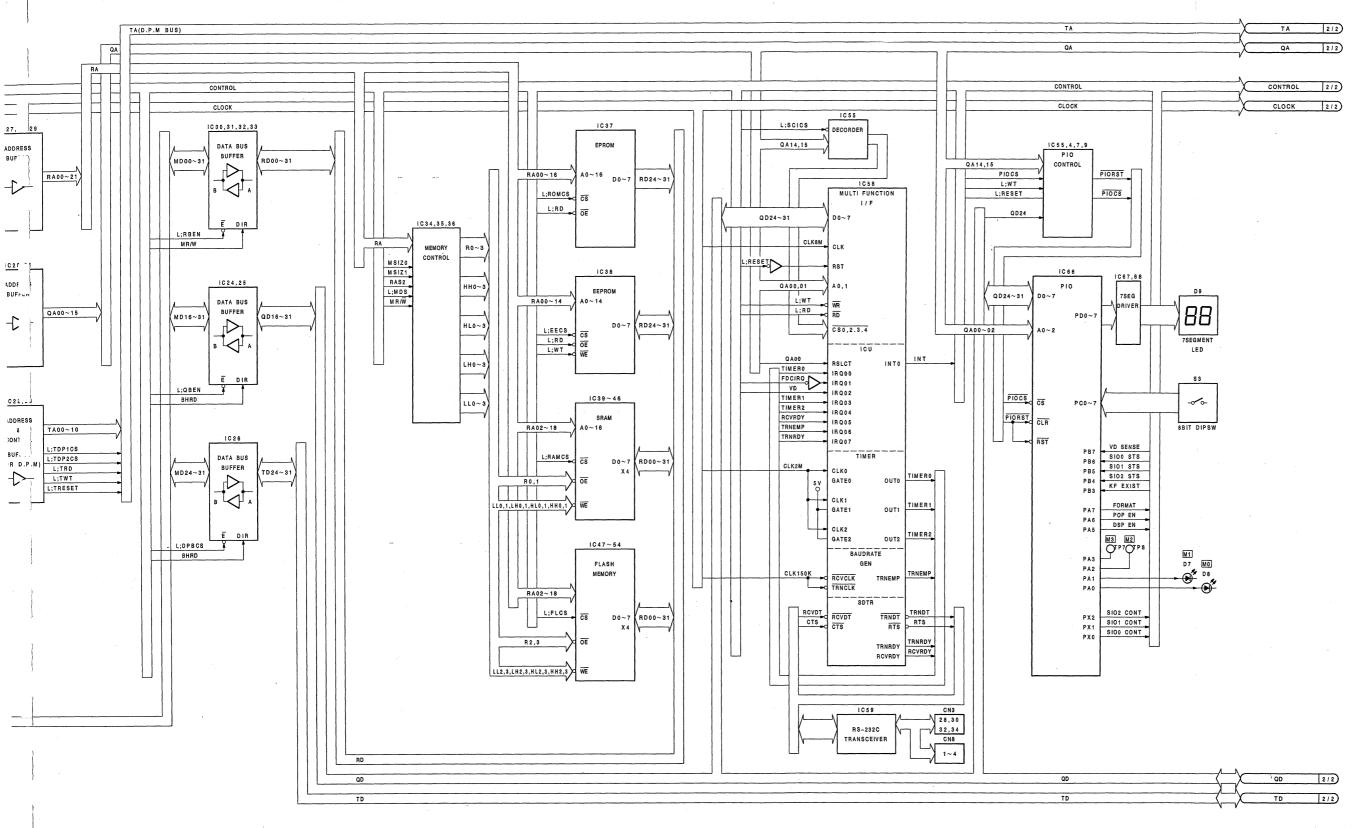


RE-96-B SIDE-1-646-847-11 DVS-6000/6000C

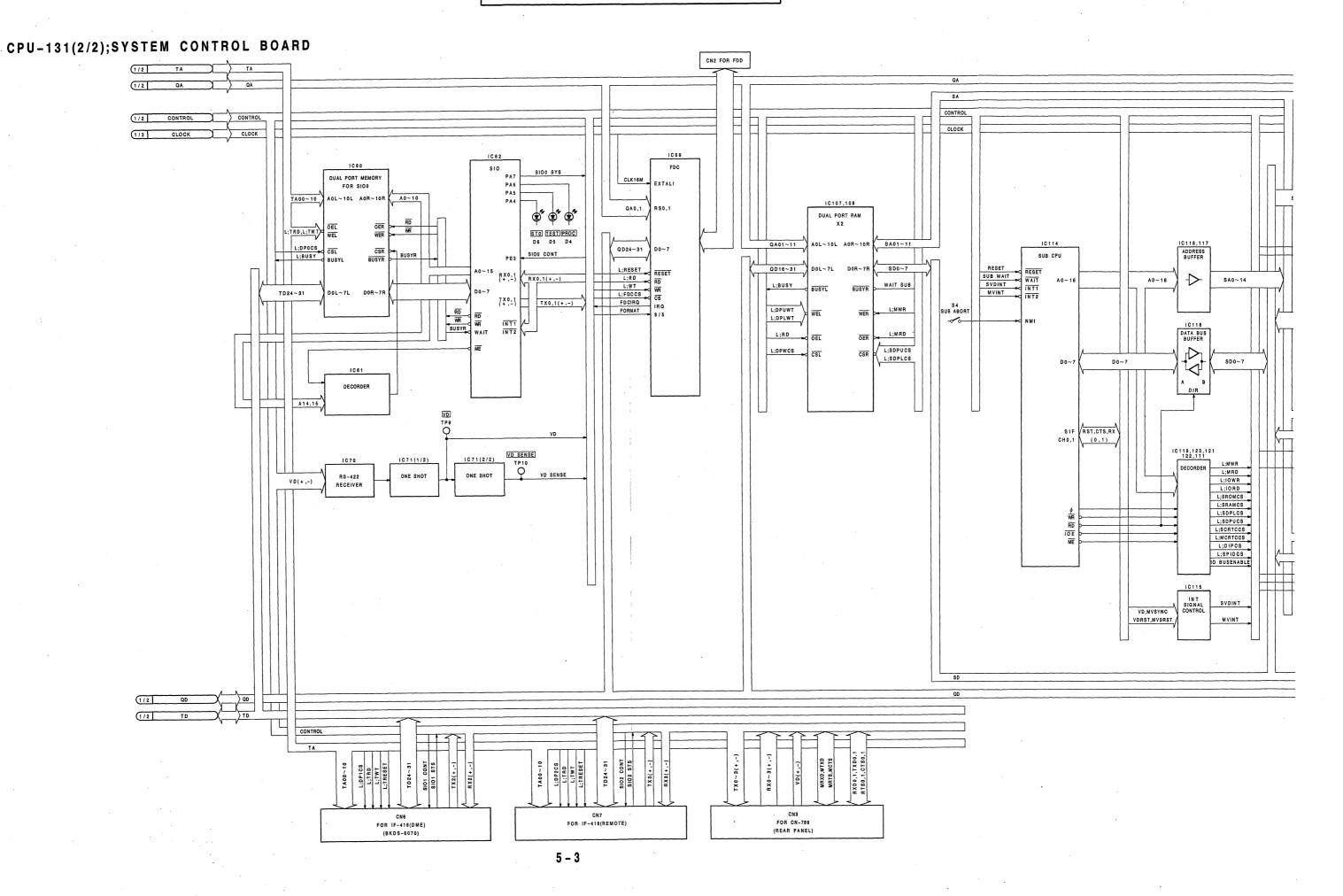
RE-96(1-646-847-11) CN1
CN2
CN3
CN4
CN5
CN6
CN7
CN8
CN9
CN10
CN11
CN12
CN13
CN14
CN15
CN16
CN17 A - 1 B - 2 A - 5 A - 6 C - 8 L - 2 L - 3 L - 4 L - 5 L - 6 L - 7 F - 8 E - 1 E - 1 F - 1 CP1 CP2 CP3 J - 1 J - 3 J - 6 D1 D2 D3 D4 D5 D6 D7 D8 D9 D11 D12 D13 D14 D15 F 1 A – 7 LF1 B - 3 PH1 D - 5 Q 4 Q 5 Q 6 H – 8 J – 8 J – 8 RV2 RV3 F - 1 TH1 VDR1

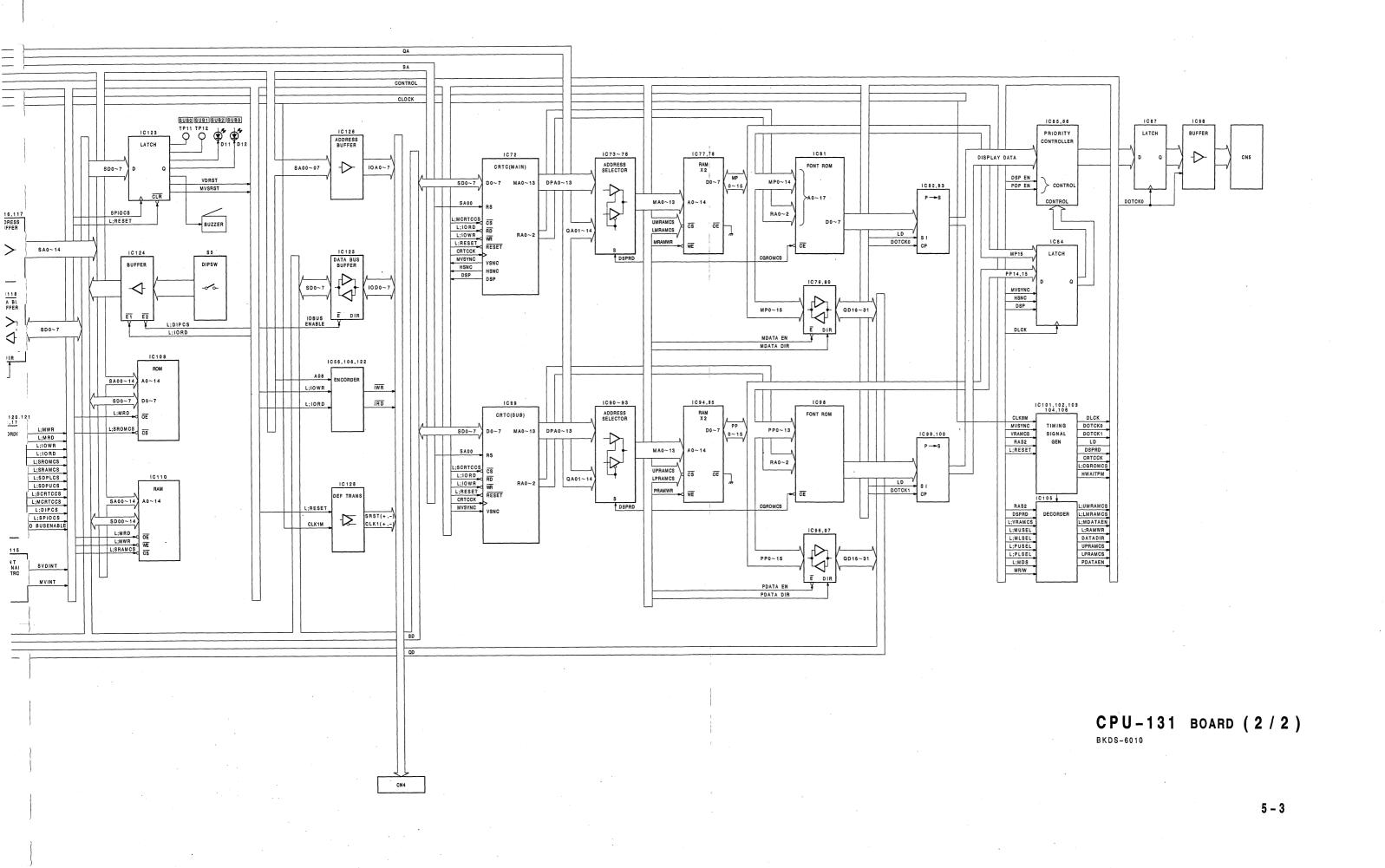
SECTION 5 BLOCK DIAGRAMS





CPU-131 BOARD (1/2)

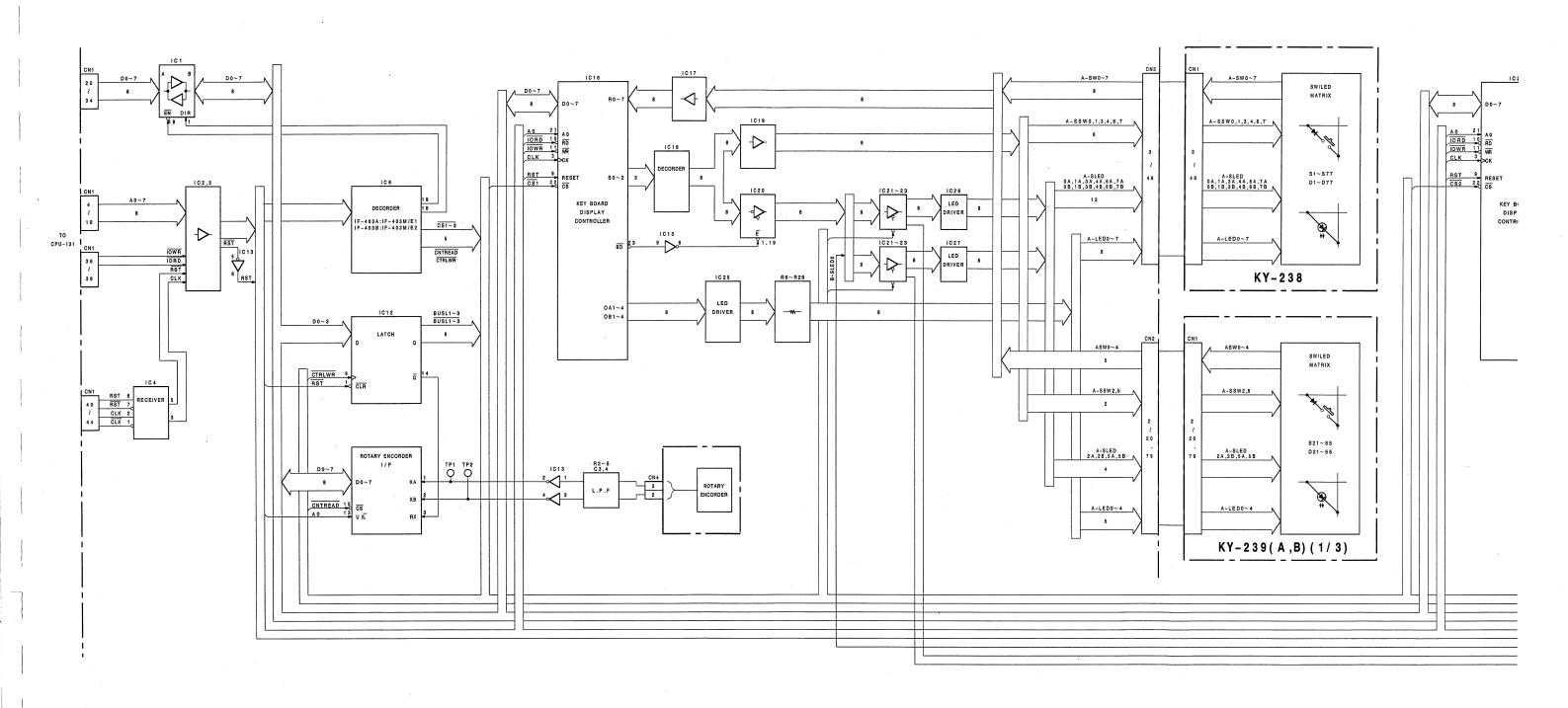


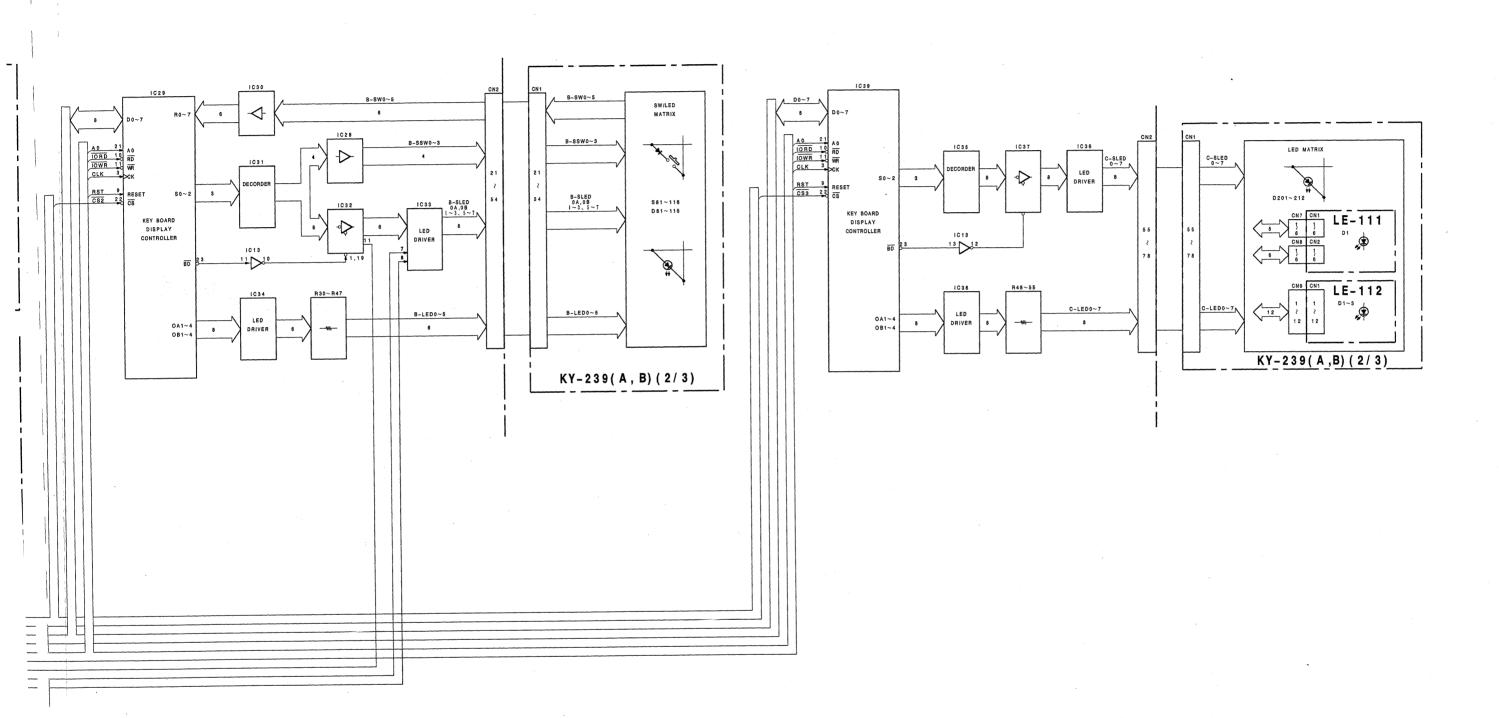


IF-403(A,B); SWITCH INTERFACE BOARD (FOR KY-239)

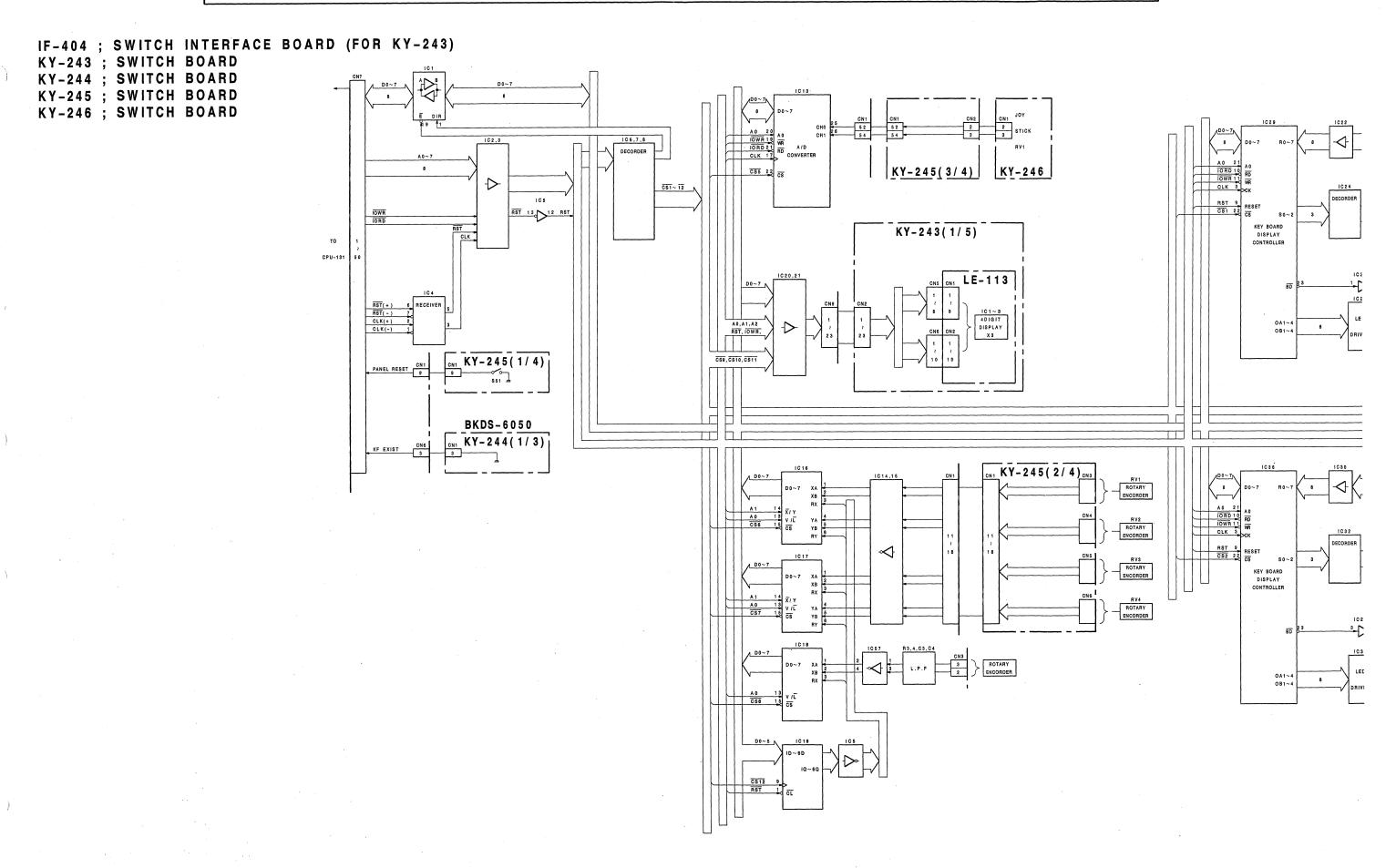
KY-238; SWITCH BOARD

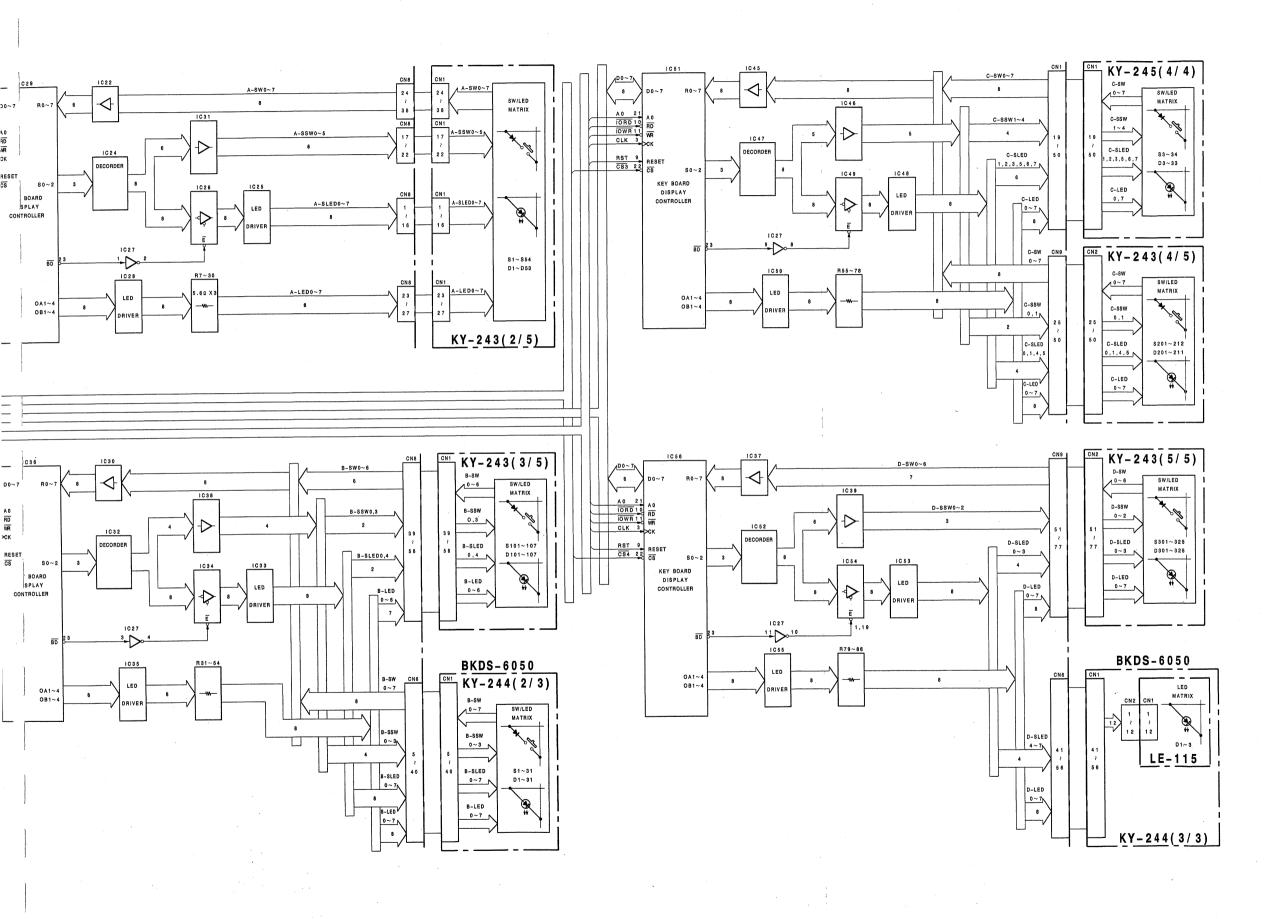
KY-239(A,B); SWITCH BOARD



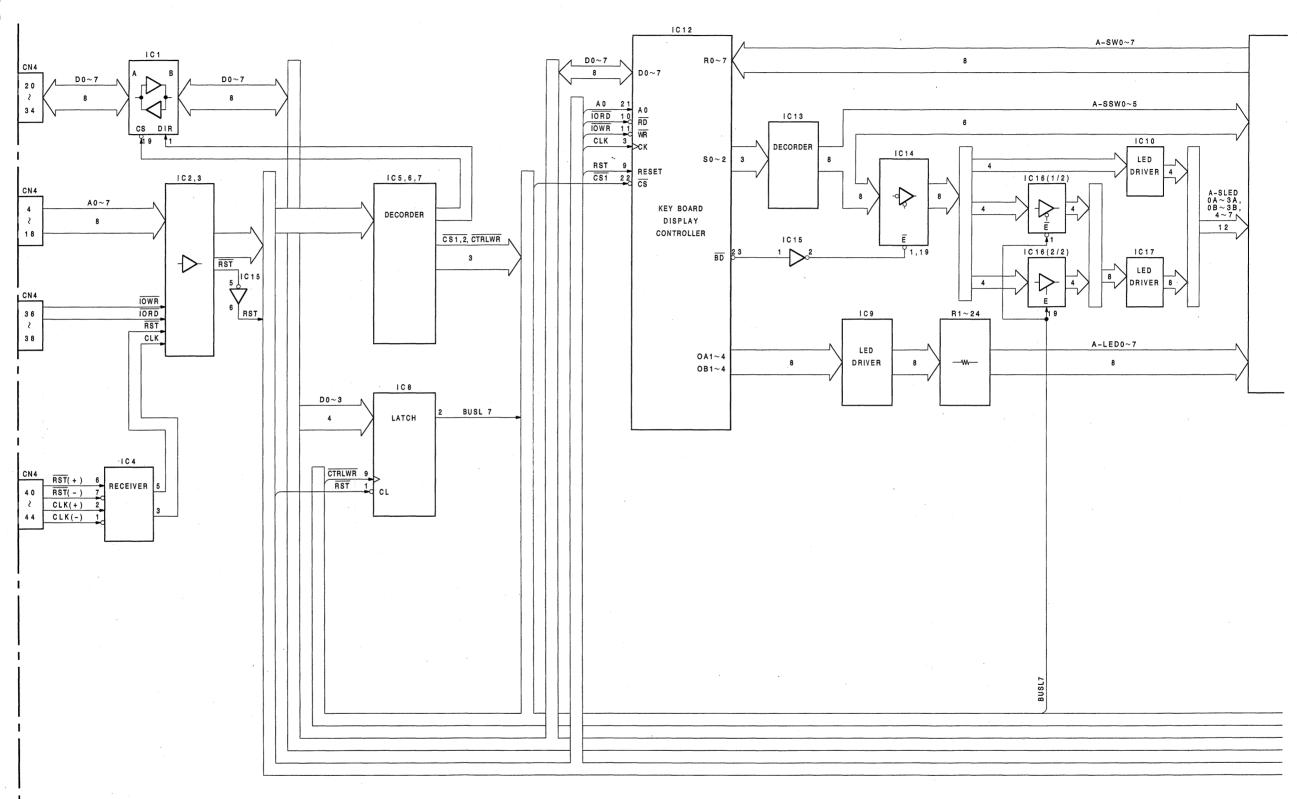


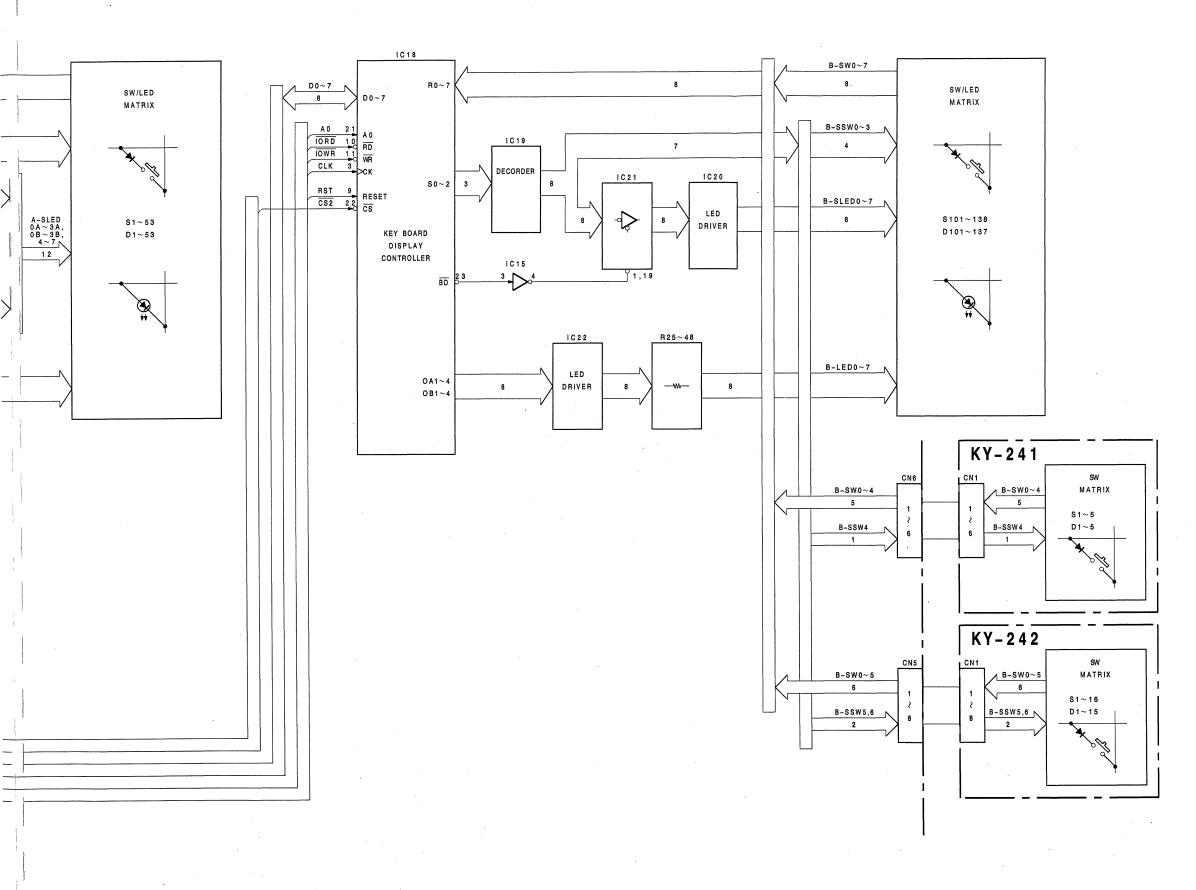
IF-403(A,B) BOARD KY-238 BOARD KY-239(A,B) BOARD BKDS-6010





IF-404 BOARD KY-243 BOARD KY-244 BOARD KY-245 BOARD KY-246 BOARD BKDS-6010 KY-240; SWITCH BOARD KY-241; SWITCH BOARD KY-242; SWITCH BOARD





KY-240 BOARD KY-241 BOARD KY-242 BOARD BKDS-6010

SECTION 6 SCHEMATIC DIAGRAMS

The circuit informations are provided below

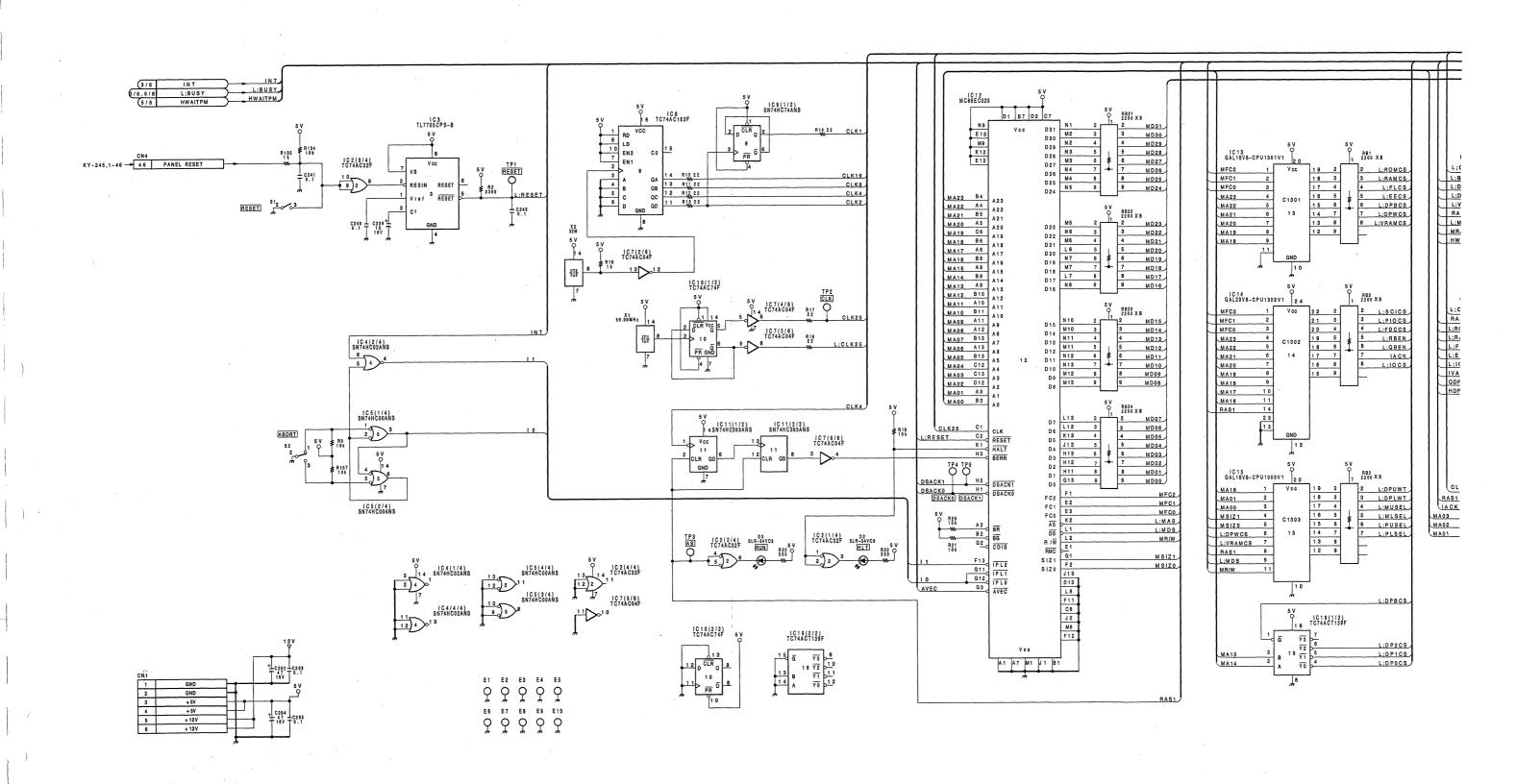
Circuit Board	Circuit Function
CPU-131	SYSTEM CONTROL
CN-789	CONNECTOR
CN-790	CONNECTOR
IF-403	SWITCH INTERFACE (FOR KY-239)
IF-404	SWITCH INTERFACE (FOR KY-243)
IF – 4 1 8	INTERFACE (BKDS-6050)
KY-238	SWITCH
KY-239(A,B)	SWITCH
KY-240	SWITCH
KY-241	SWITCH
KY-242	SWITCH
KY-243	SWITCH
KY-244	SWITCH (BKDS-6050)
KY-245	SWITCH
KY-246	SWITCH
LE-111	LED
LE-112	LED
LE-113	LED
LE-114	LED
LE-115	LED (BKDS-6050)

回路図において、REF.NOの近傍に下記記号が記載されていますが、これは生産時の部品データです。

In the schematic diagrams,the following marks are described nearby reference number. These are parts data at factory.

CAPACITOR (C)	RESISTOR (R) VARIABLE RESISTOR
AL AS ELECTROLYTIC TA TANTALUM CCC CCC CCCS CM CS ELECTROLYTIC CTANTALUM CCC CCCS CCCC CCCC CCCCCC CCCCCCCCCCC	RC
MPS PP MYLAR PT MD DIPPED MICA MS MICA	

CPU-131(1/6); SYSTEM CONTROL BOARD

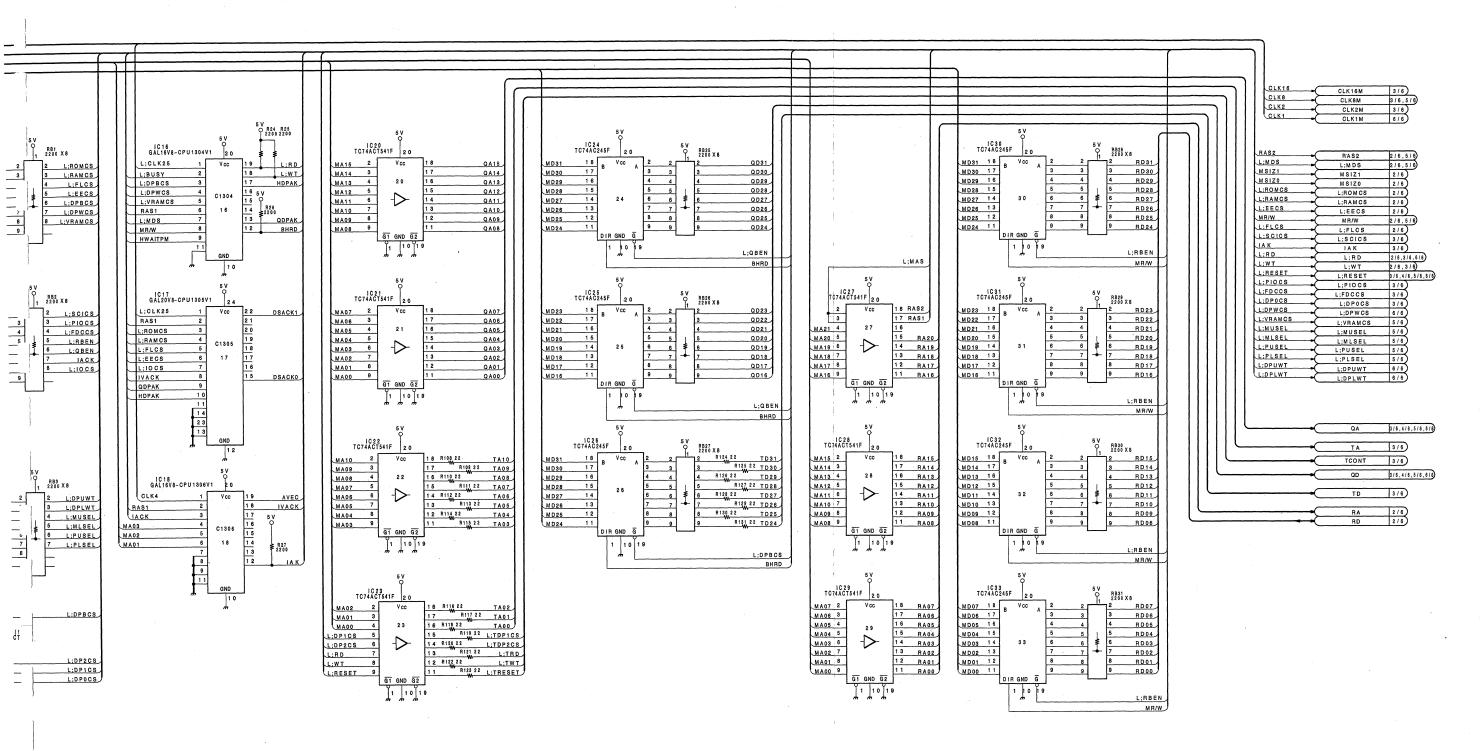


6 - 3 (b)

F

Н

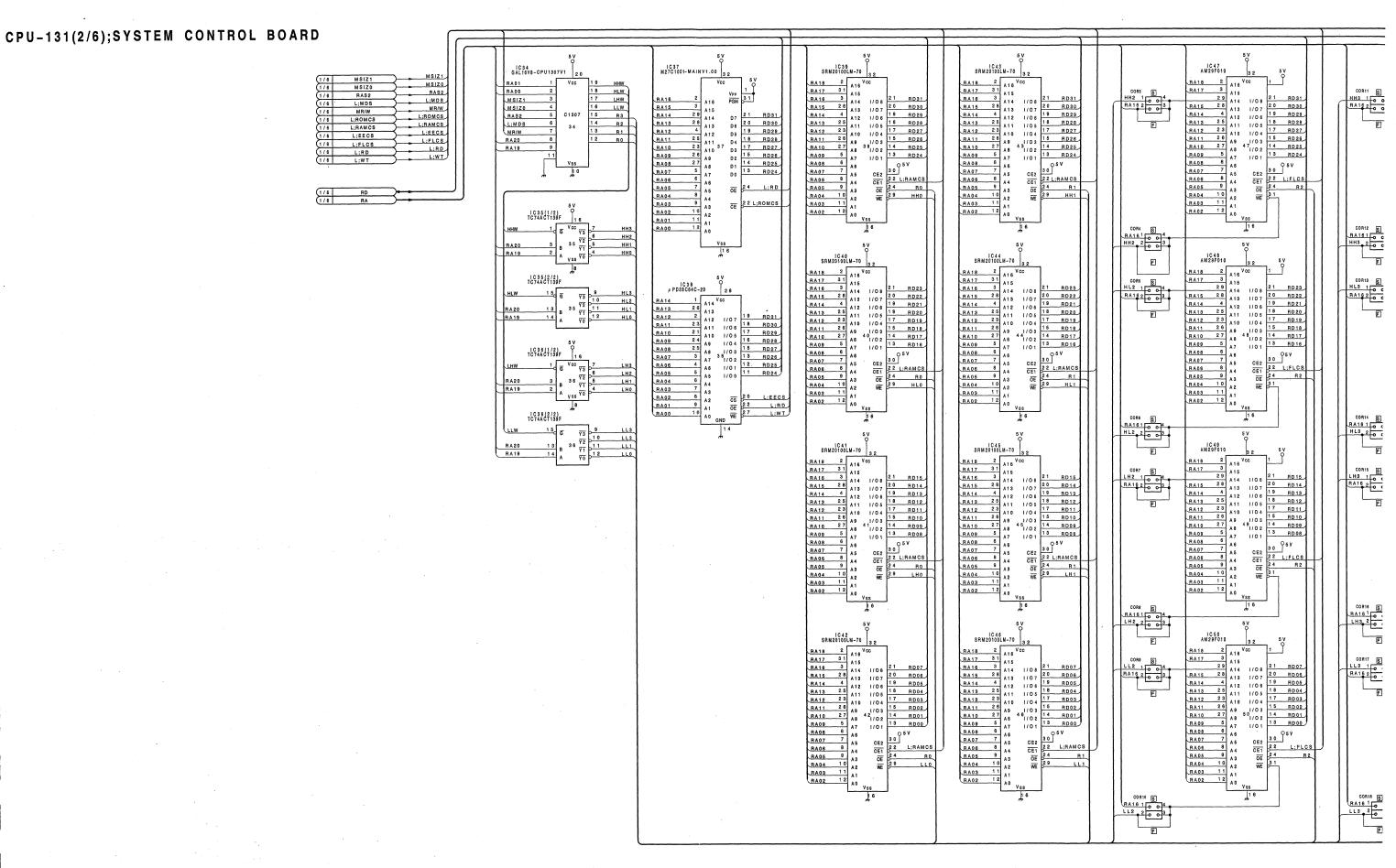
A



CPU-131 BOARD (1/6) BOARD NO.1-646-597-12 BKDS-6010

6 - 3(b)

0



6 - 4 (b)

.

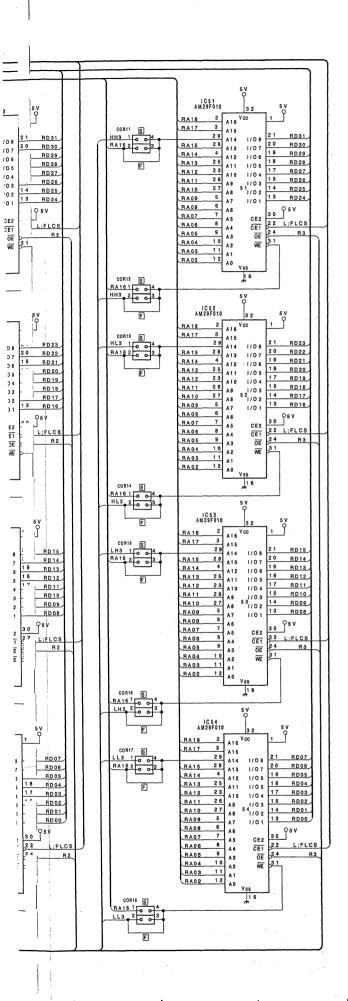
C ,

1

F

G

Н



CPU-131 BOARD (2/6)
BOARD NO.1-646-597-12
BKDS-6010

6 - 4 (b)

M

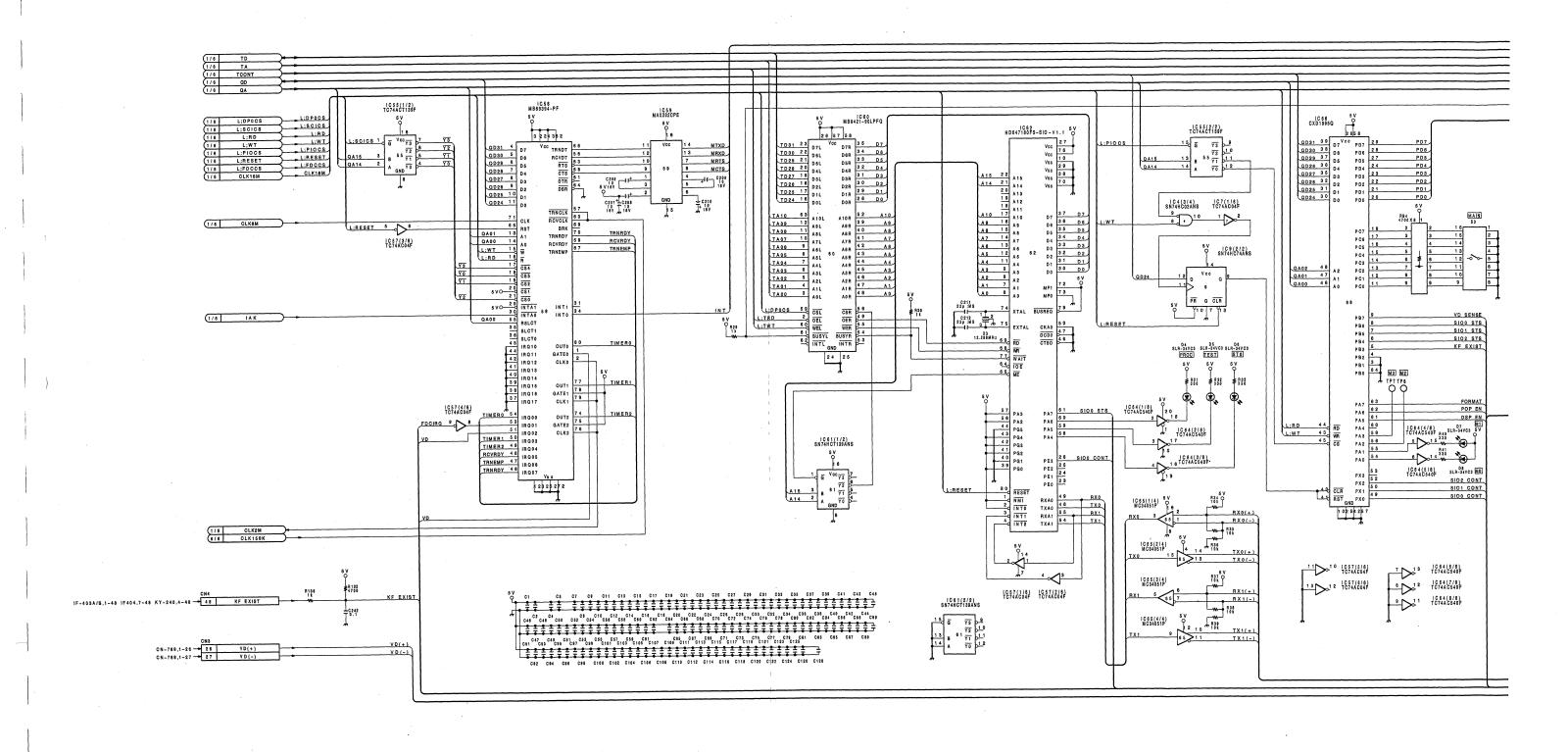
*.

1

Р

*

CPU-131(3/6); SYSTEM CONTROL BOARD

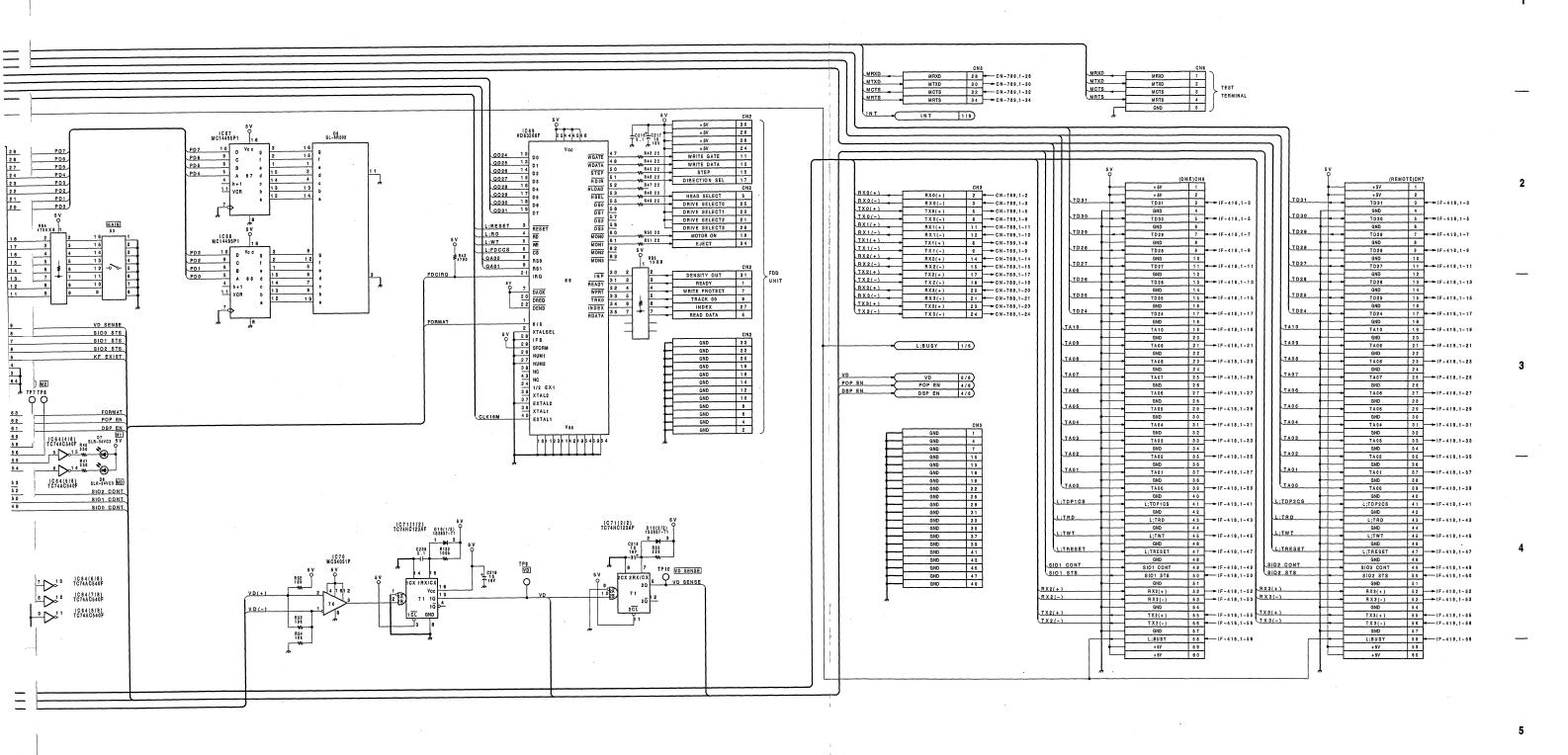


6-5(b) E F G H

C

D

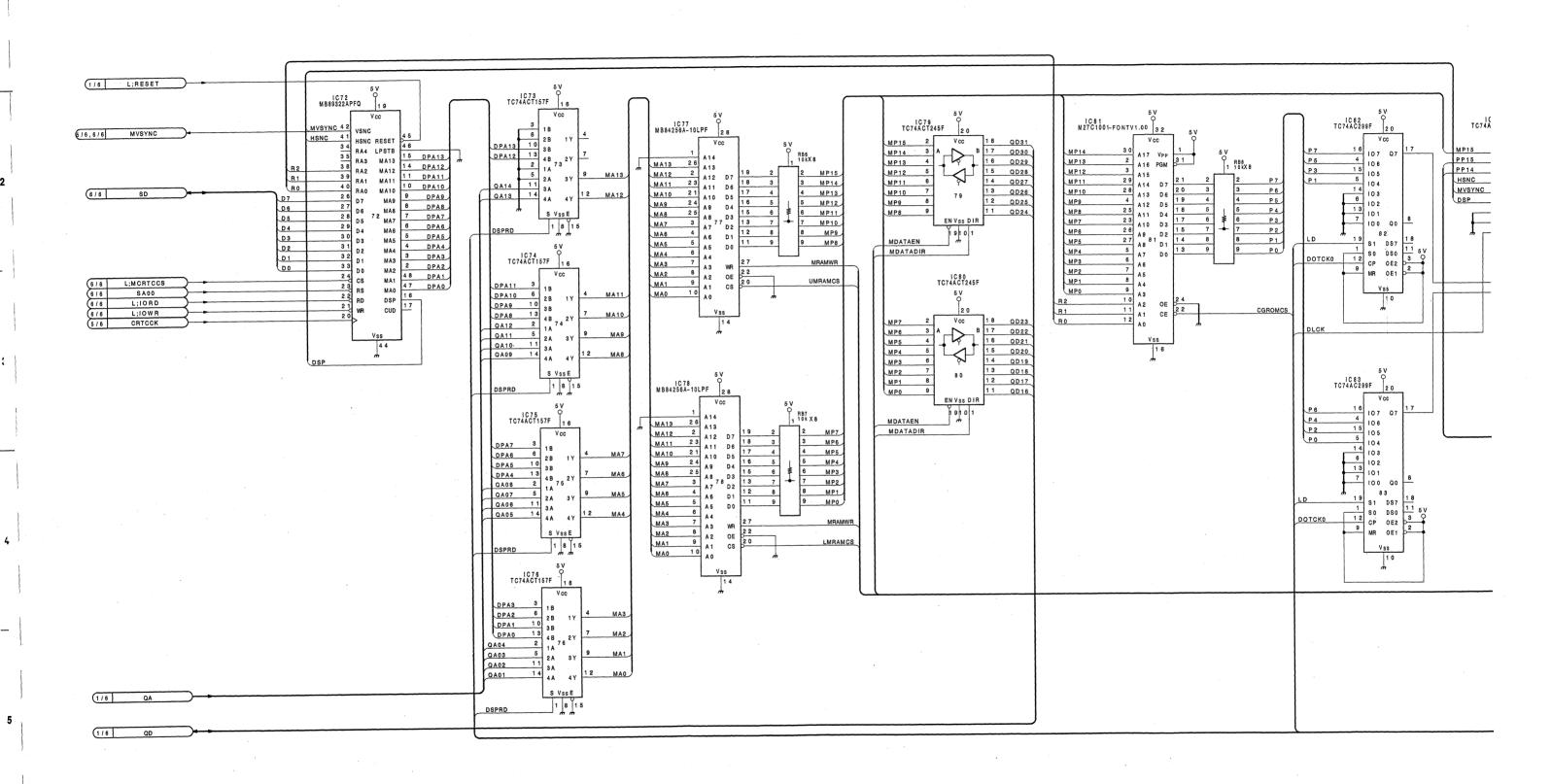
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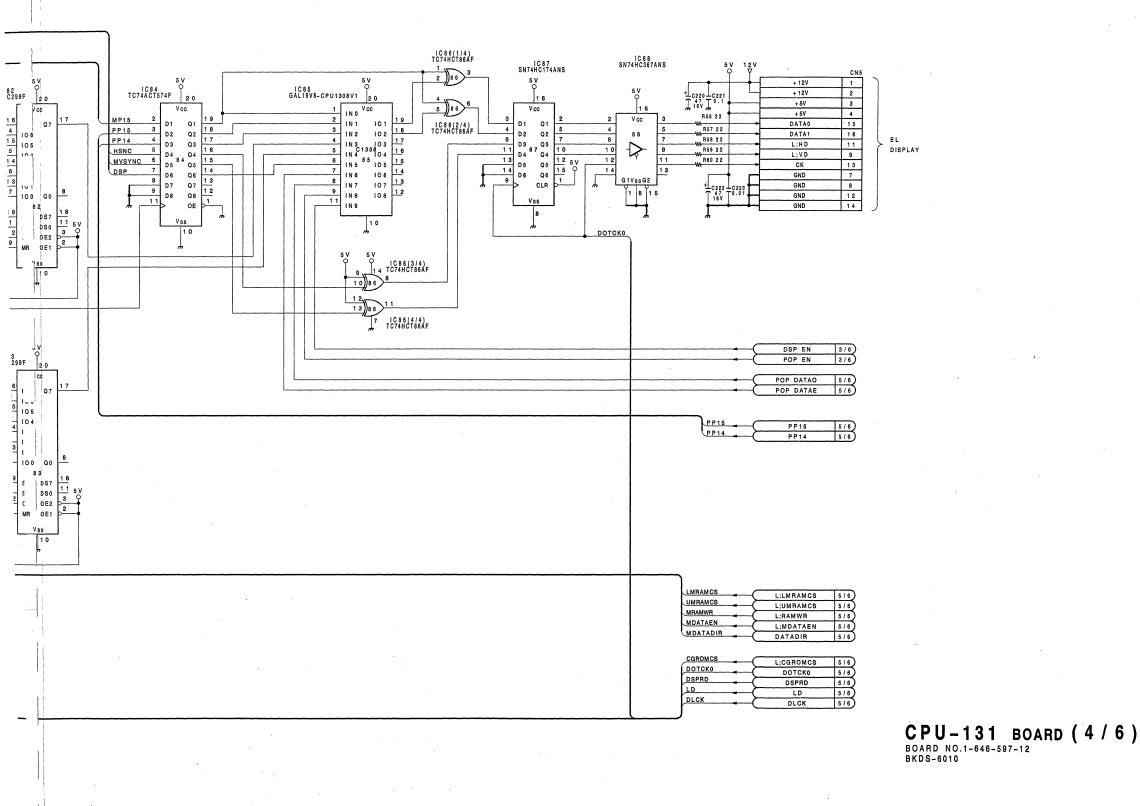
CPU-131 BOARD (3/6)

BOARD NO.1-646-597-12

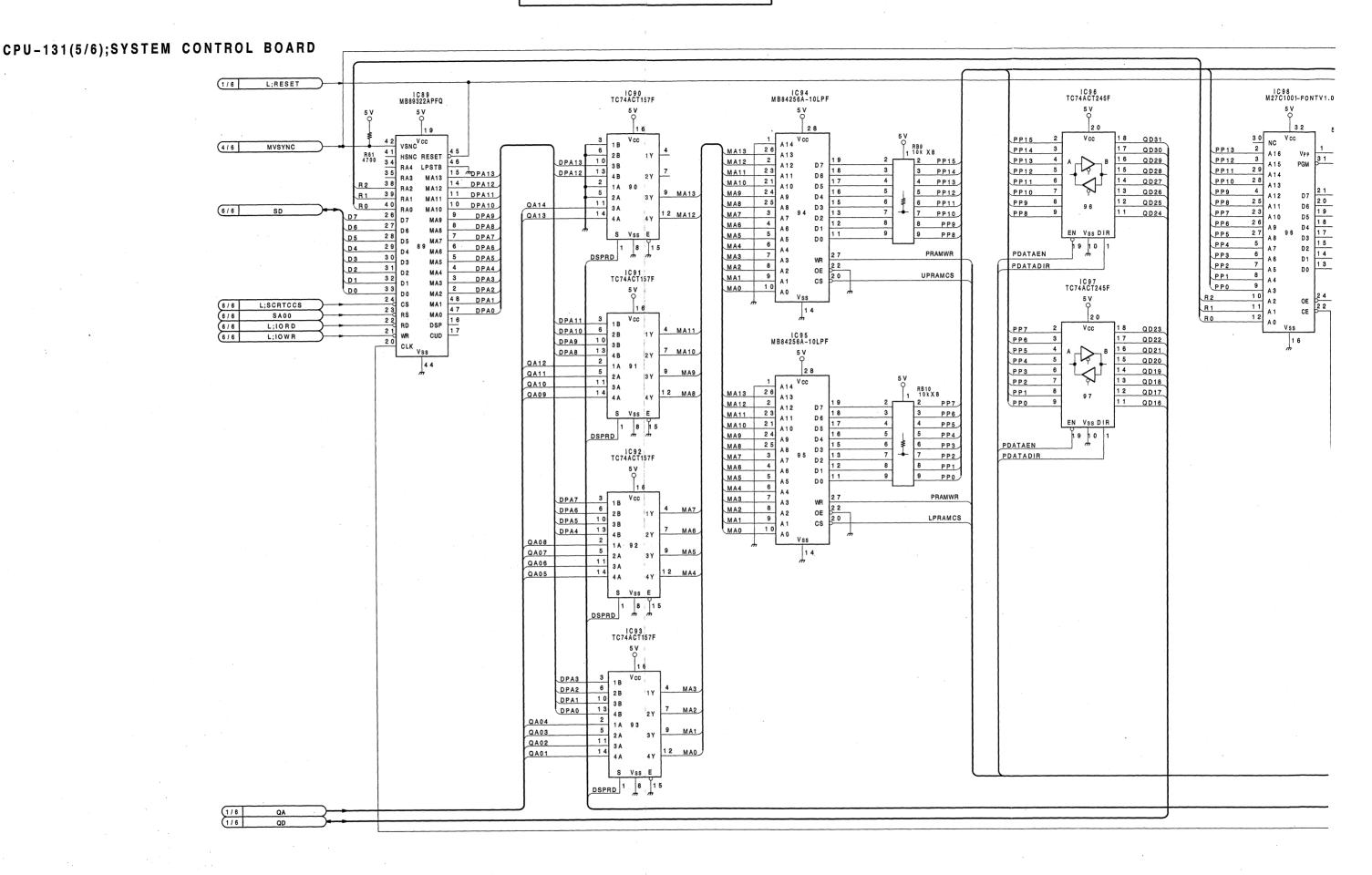
6-5(b)



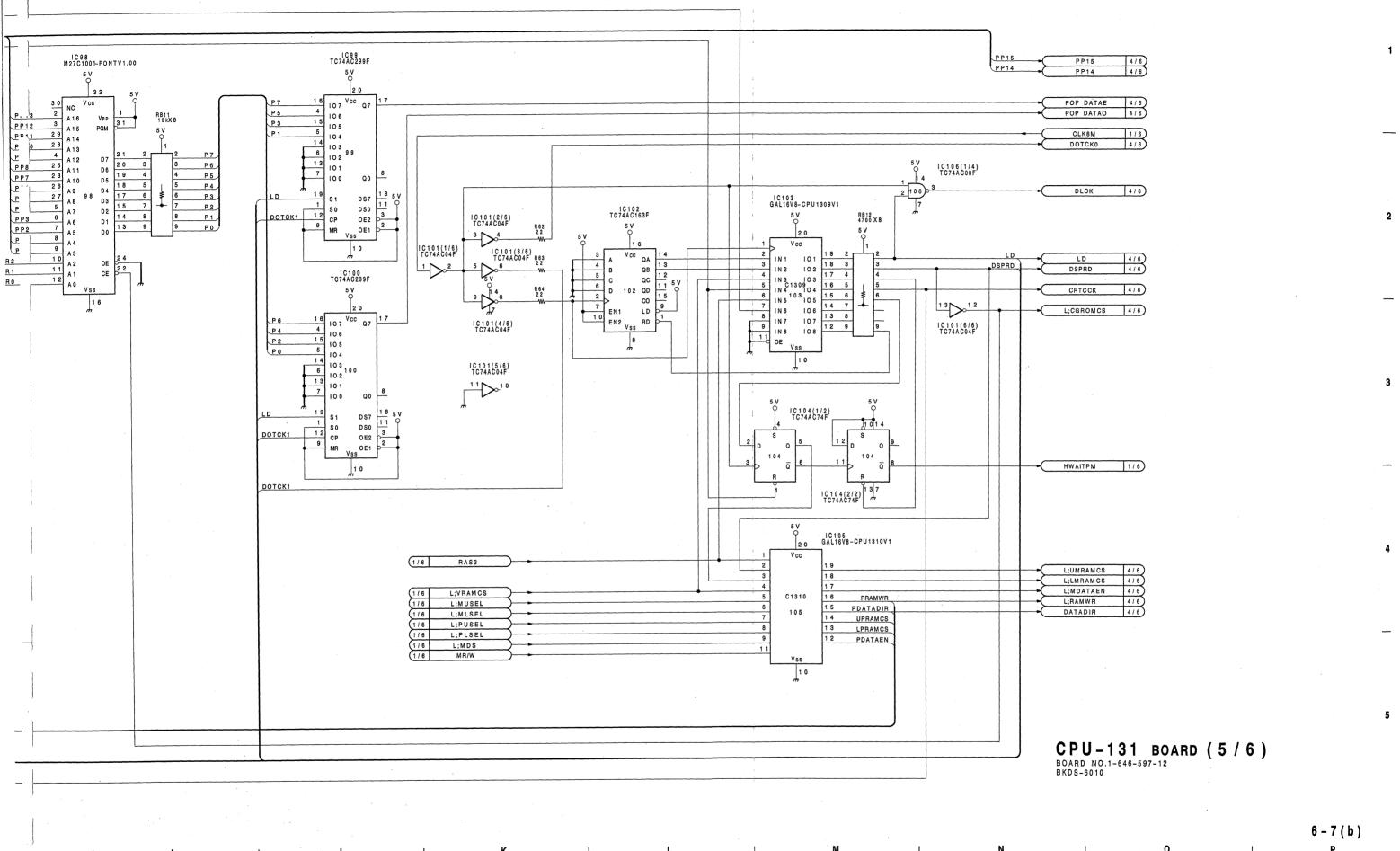
6 - 6(b)



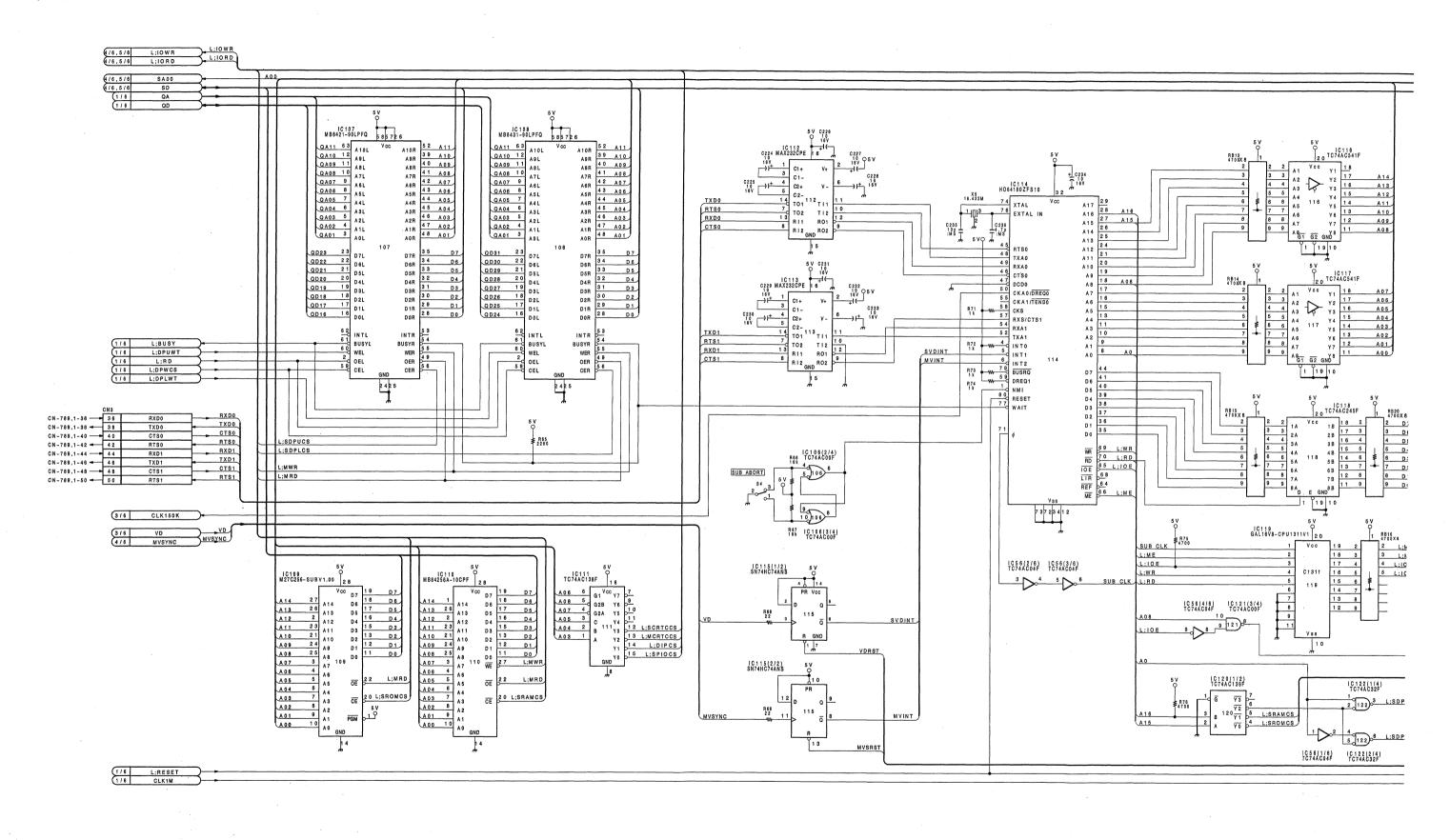
6 - 6 (b)



6-7(b)



CPU-131(6/6);SYSTEM CONTROL BOARD

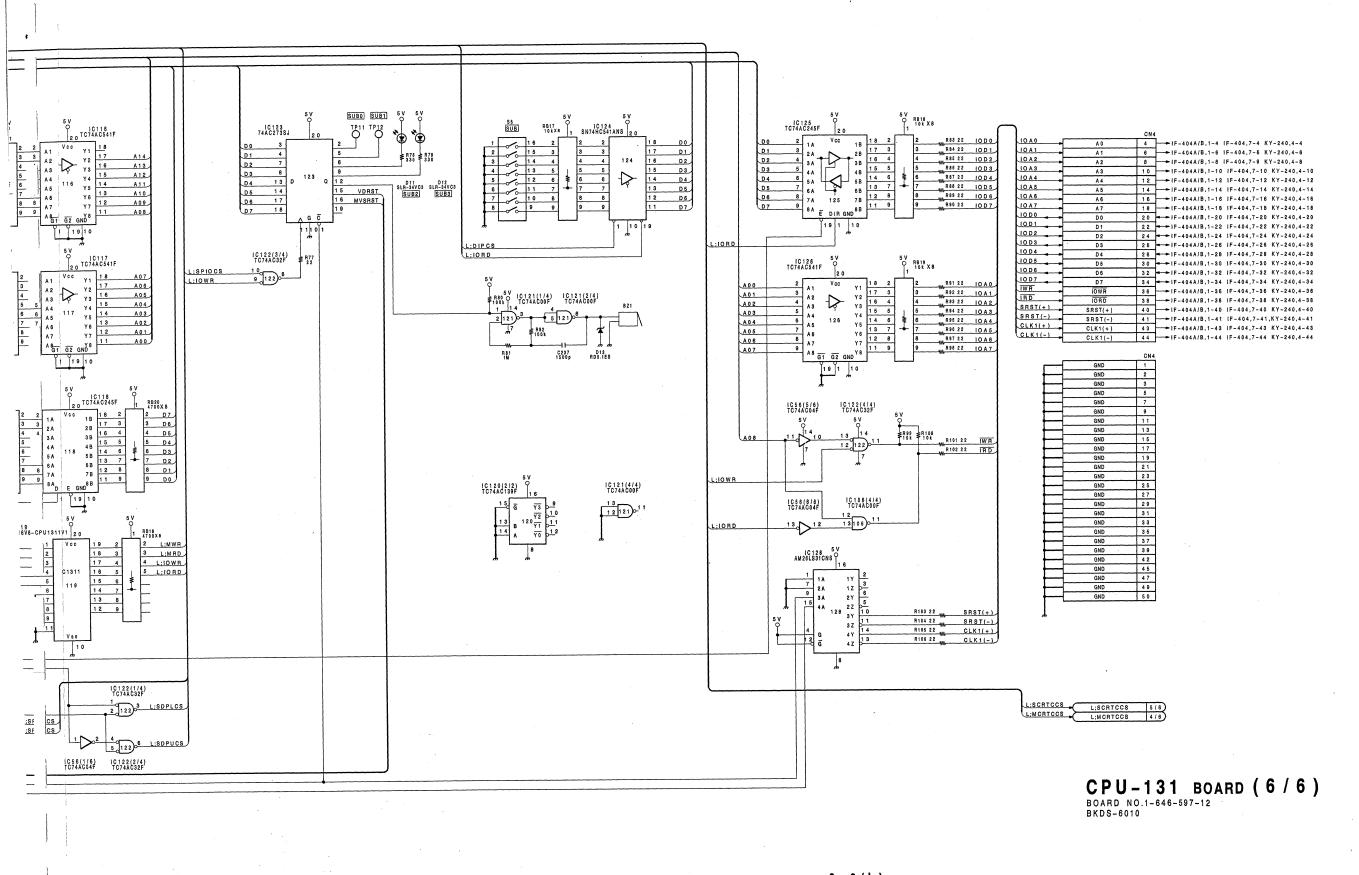


6 - 8 (b)

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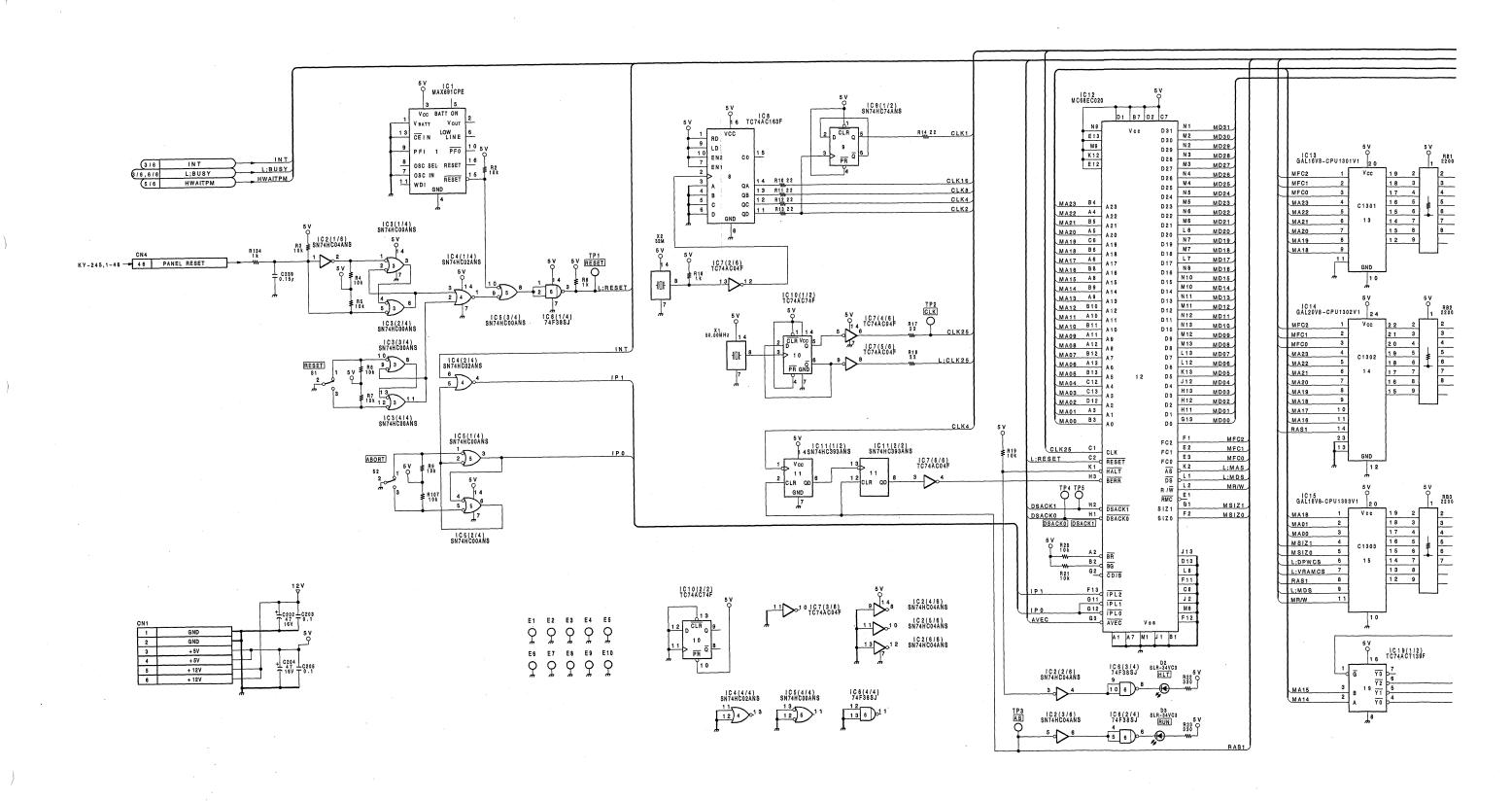
D

E

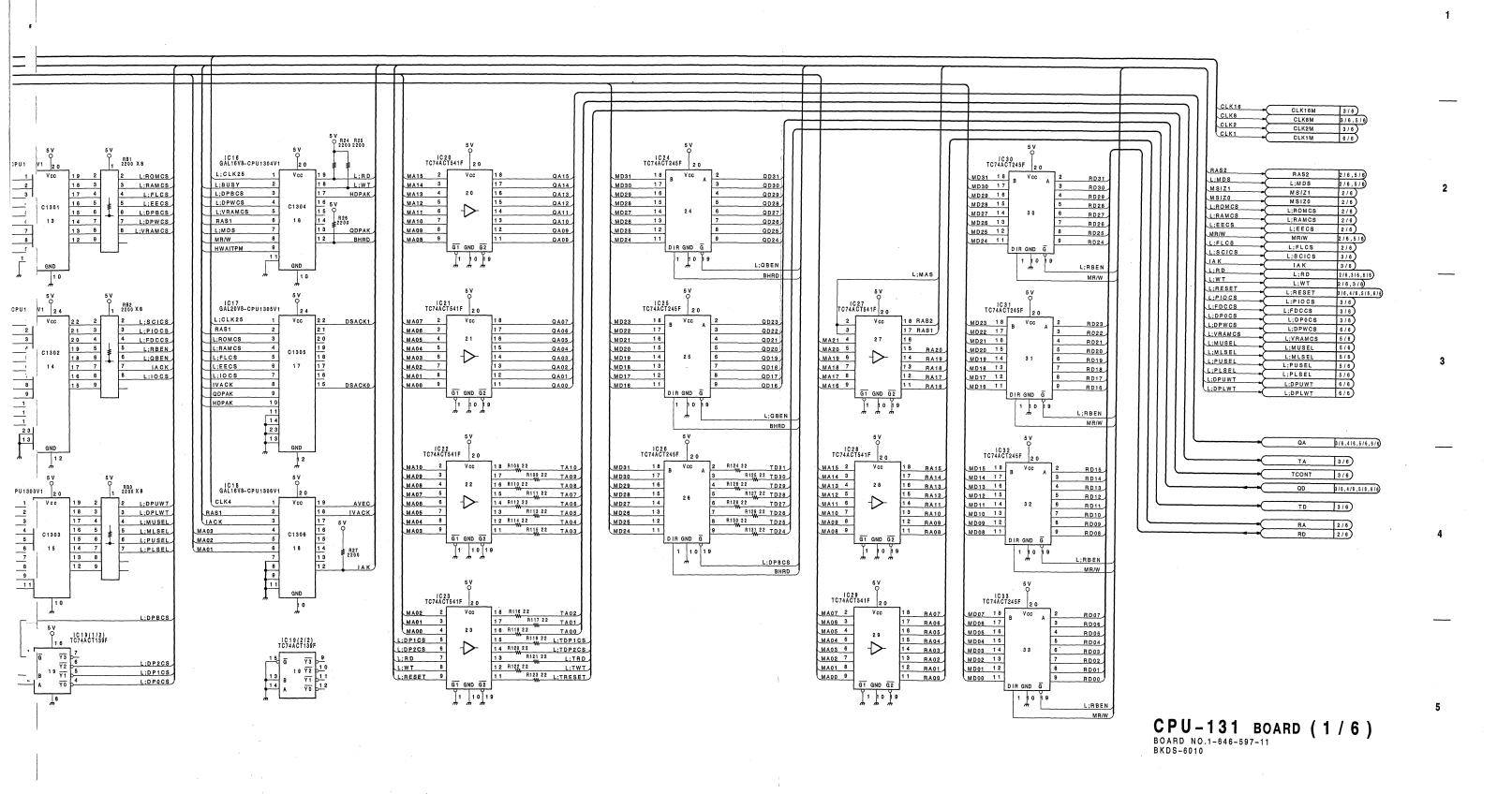


6-8(b)

CPU-131(1/6); SYSTEM CONTROL BOARD



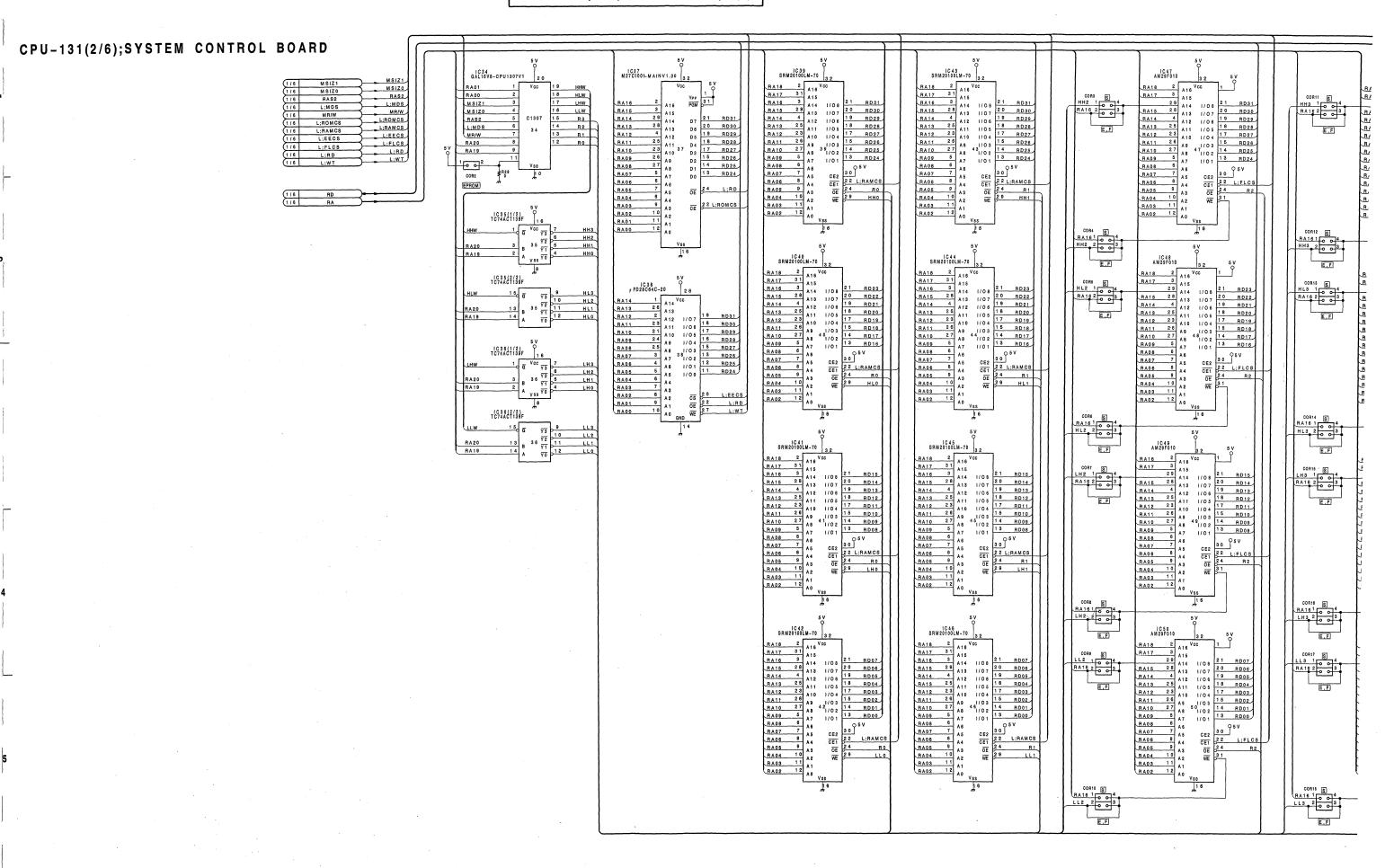
6 - 3 (a)



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6 - 3 (a)

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6 – 4 (a)

В

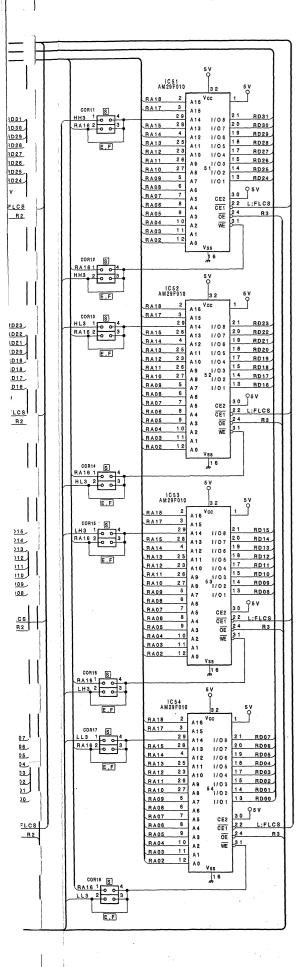
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CPU-131 BOARD (2/6)
BOARD NO.1-646-597-11
BKDS-6010

6 - 4 (a)

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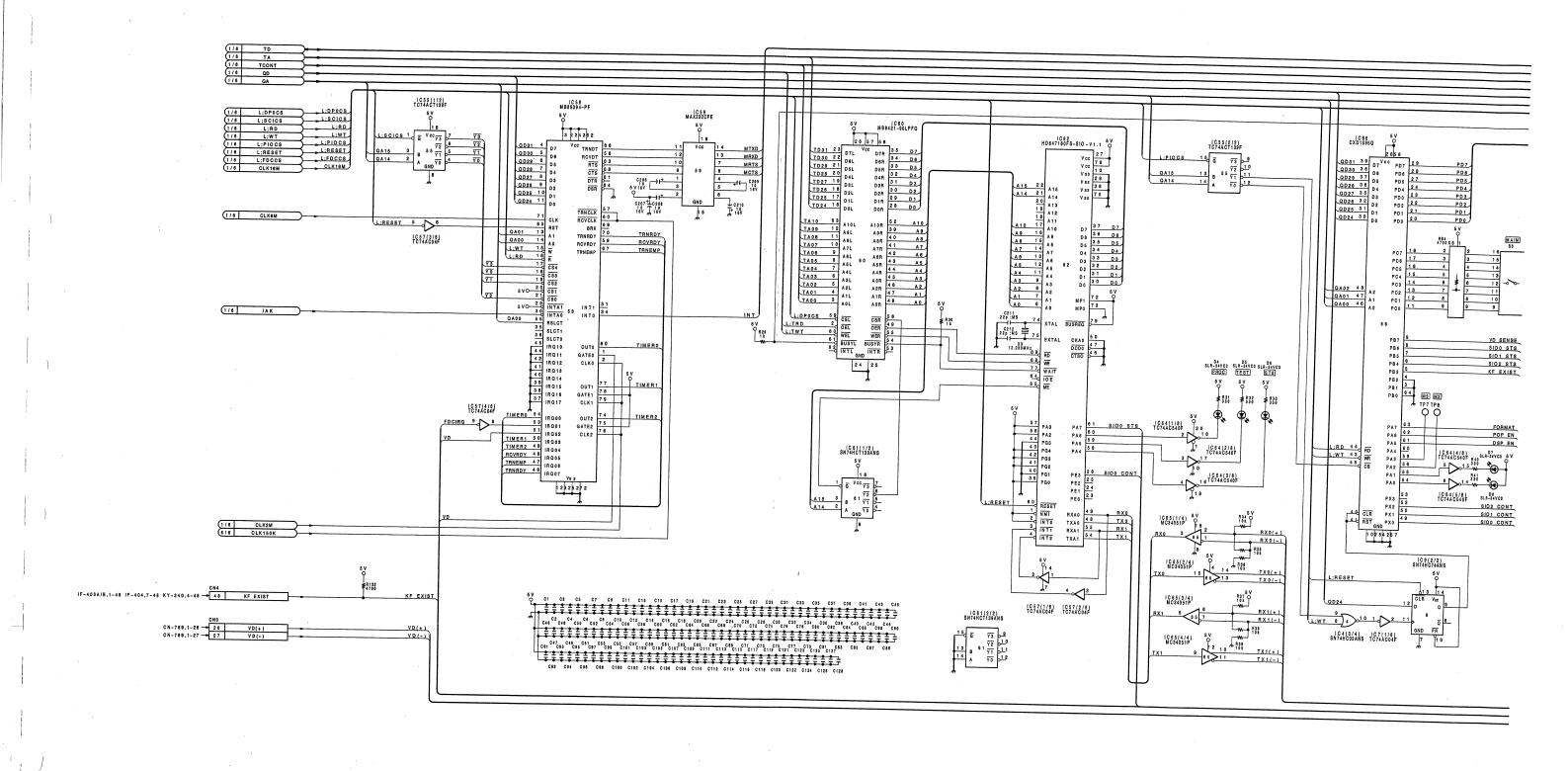
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CPU-131(3/6); SYSTEM CONTROL BOARD



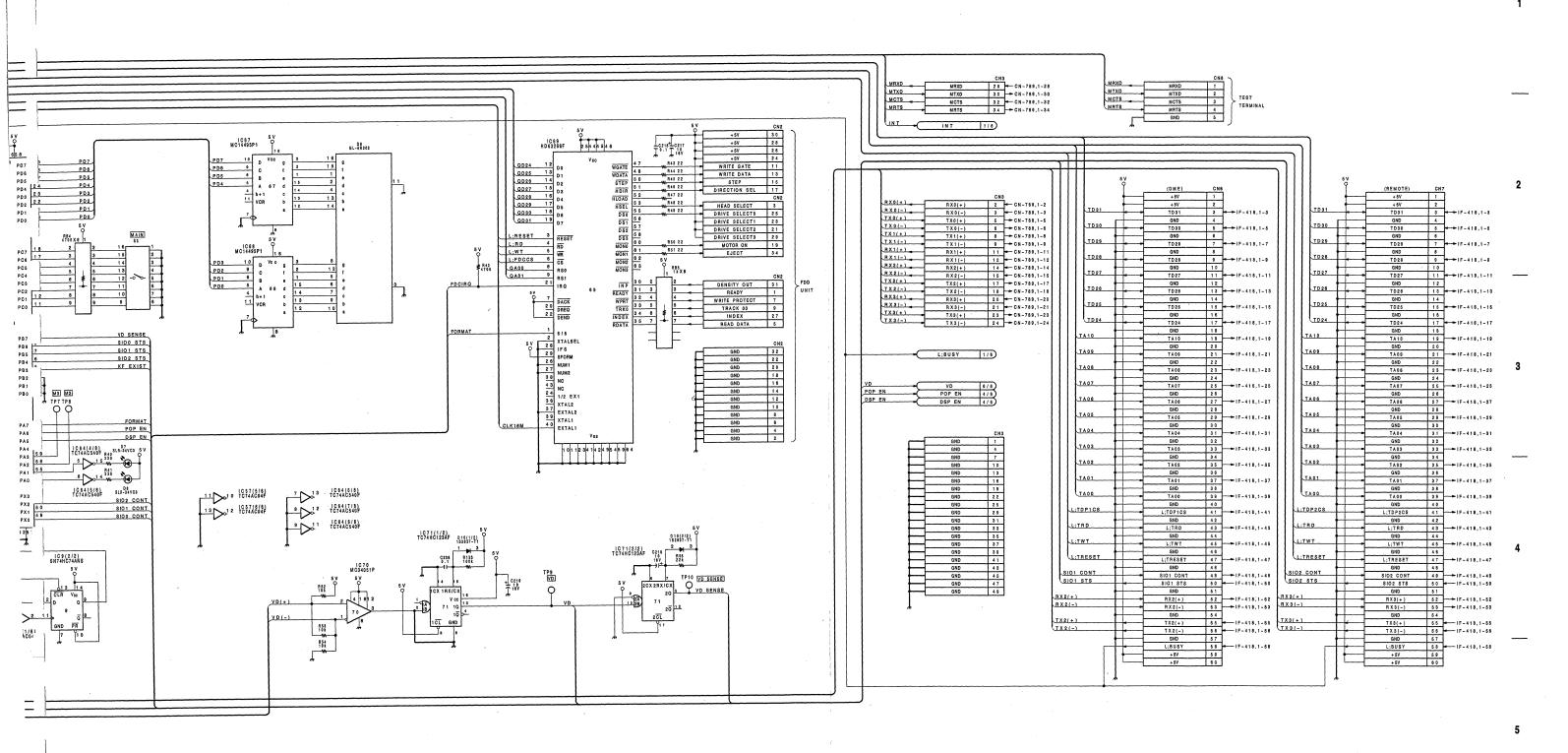
6 – 5 (a)

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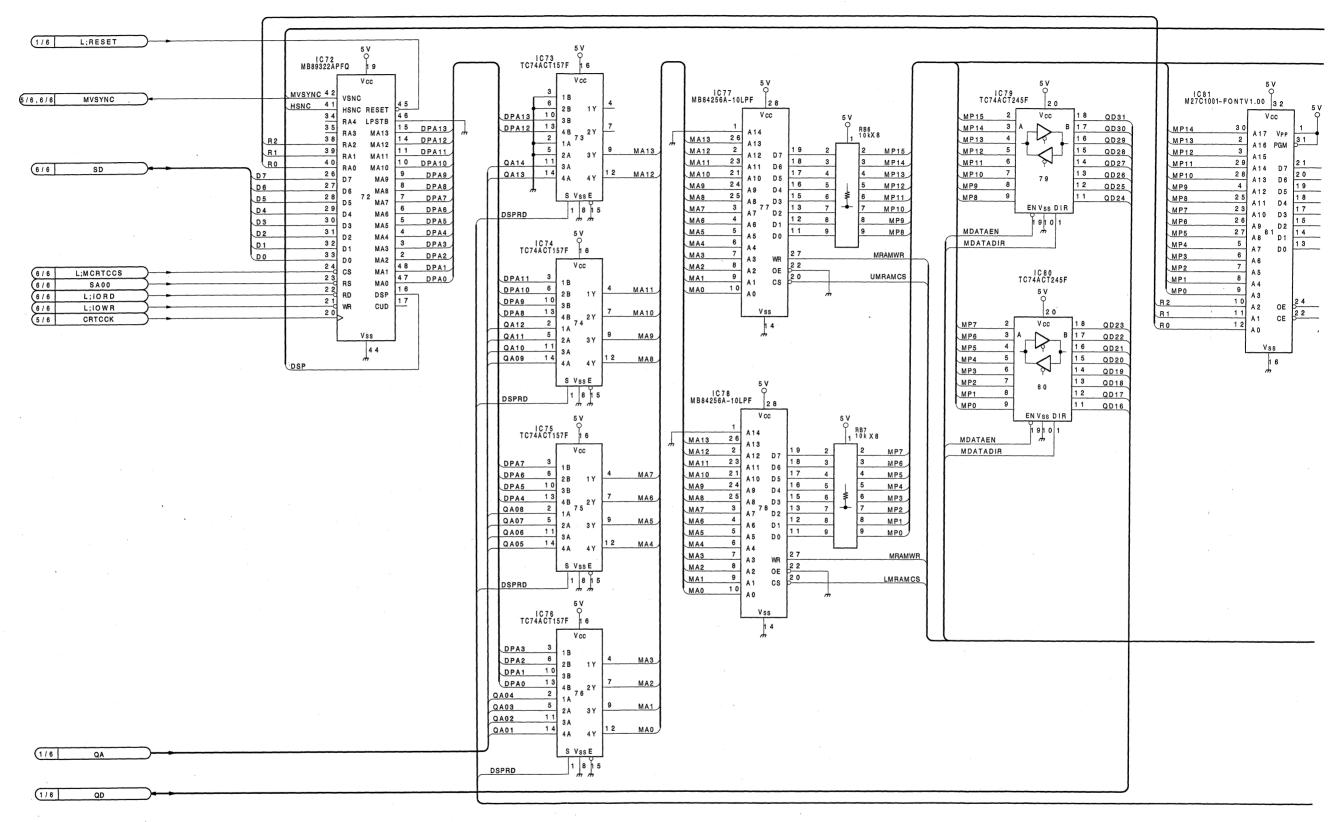
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CPU-131 BOARD (3/6)
BOARD NO.1-646-597-11
BKDS-6010

6 - 5(a)

CPU-131(4/6); SYSTEM CONTROL BOARD



6 - 6 (a)

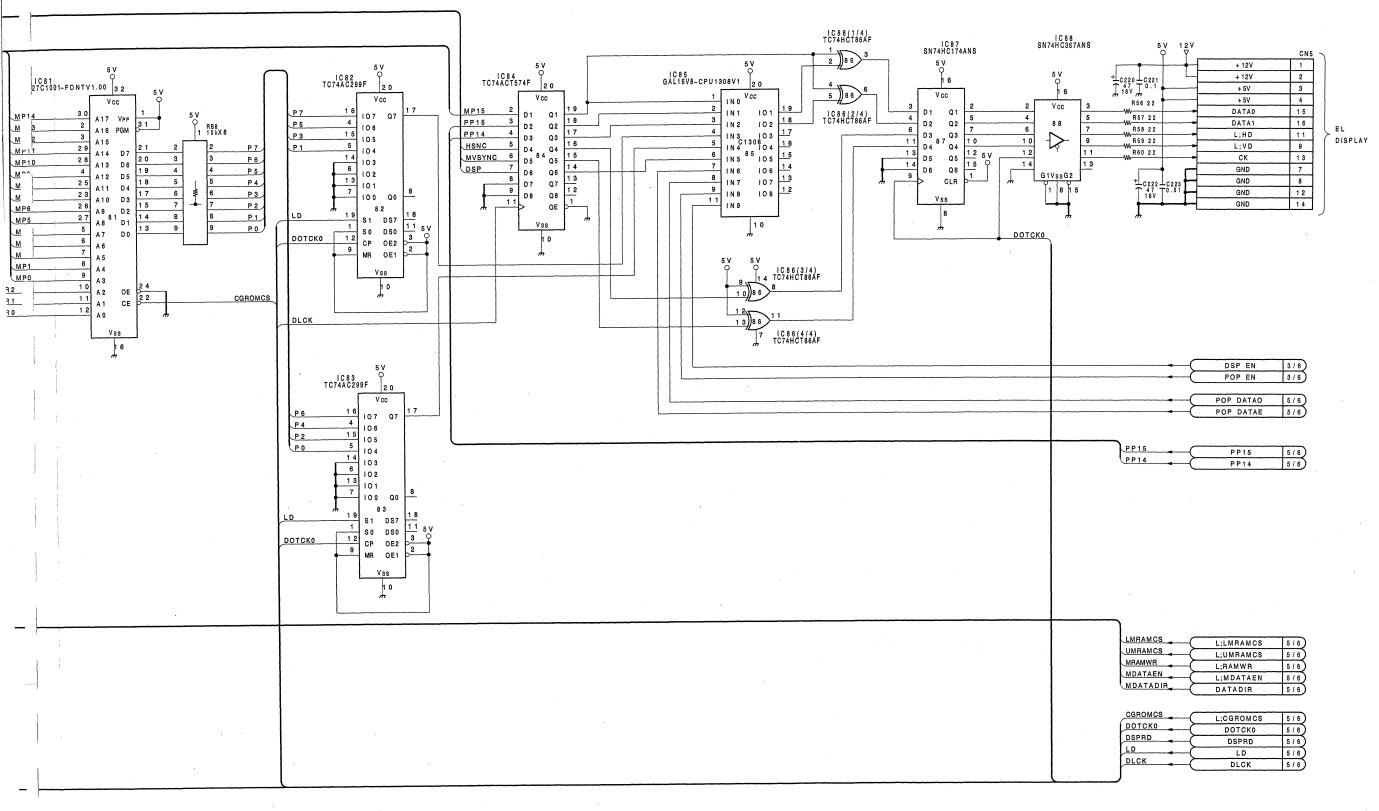
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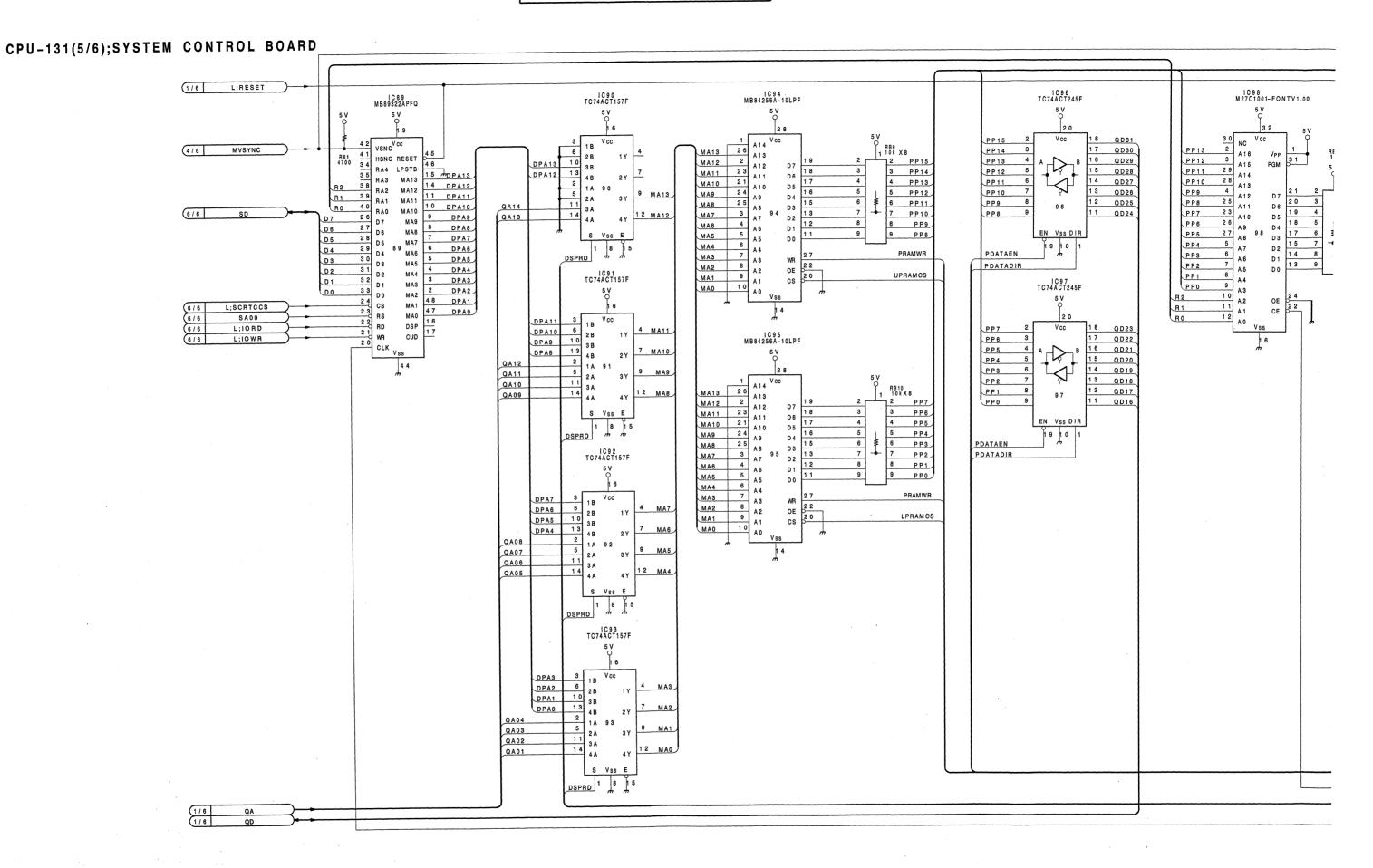
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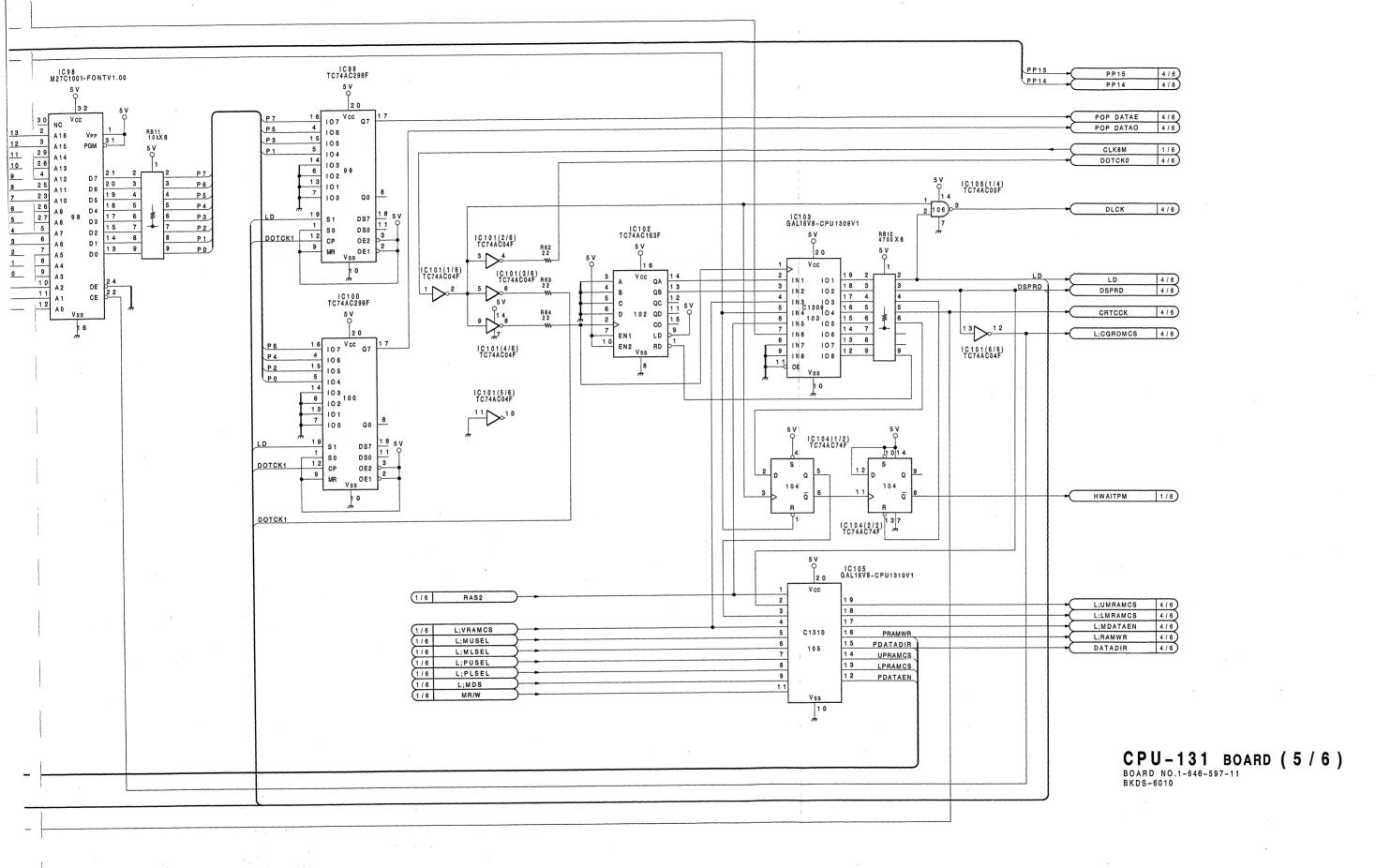
CPU-131 BOARD (4/6)
BOARD NO.1-646-597-11
BKDS-6010

6-6(a)

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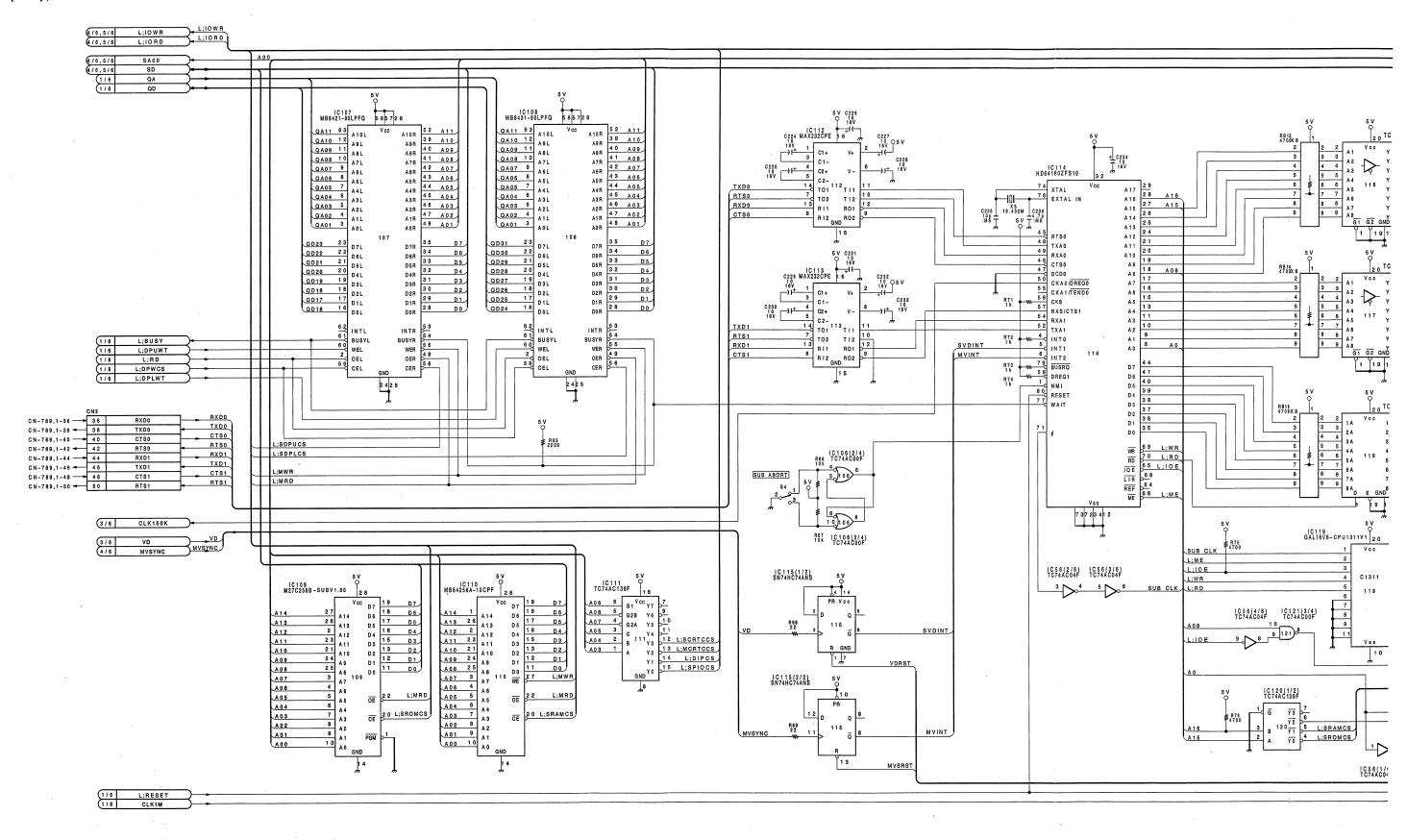


6 - 7(a)



6 - 7 (a)

CPU-131(6/6);SYSTEM CONTROL BOARD



6 - 8 (a)

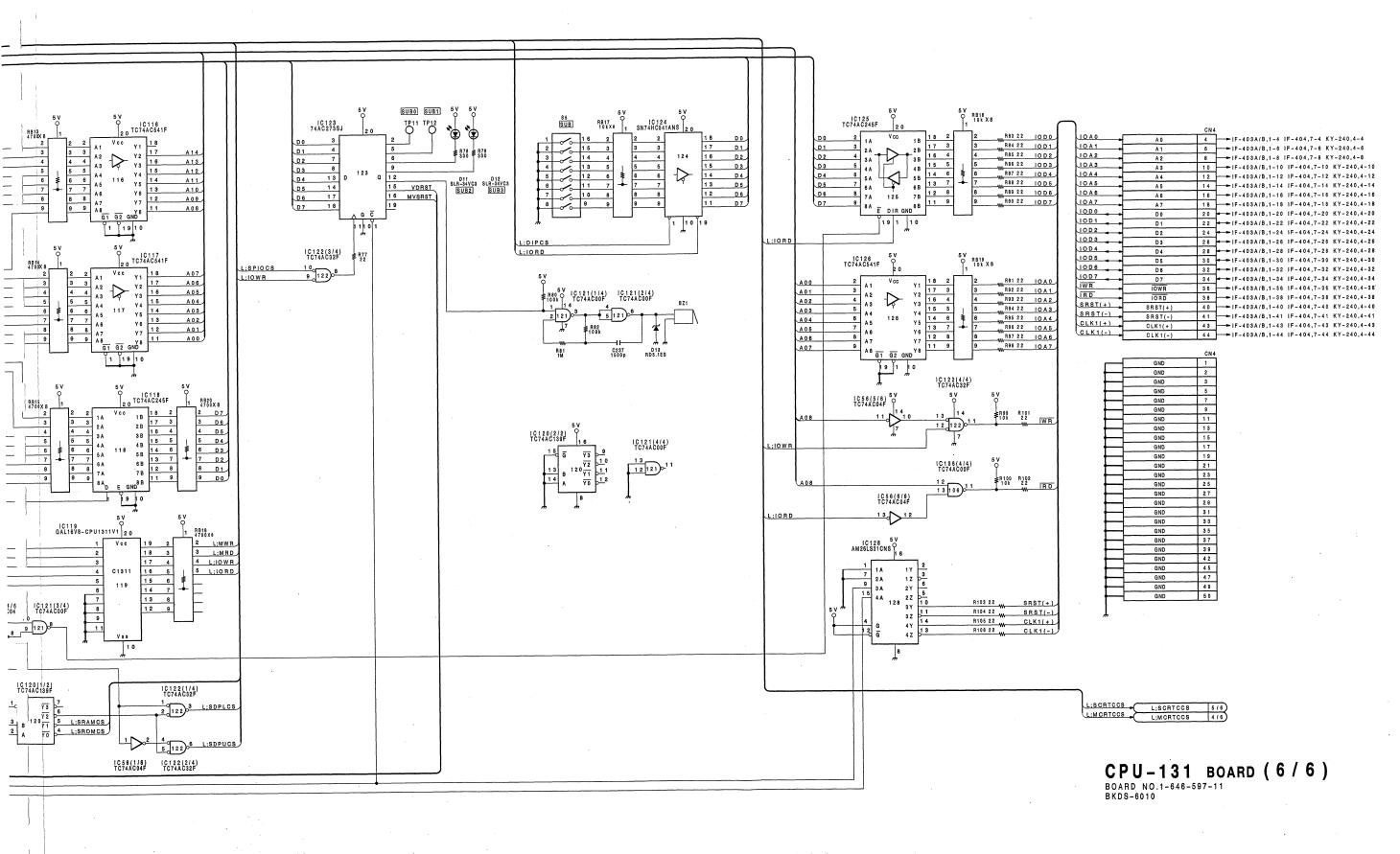
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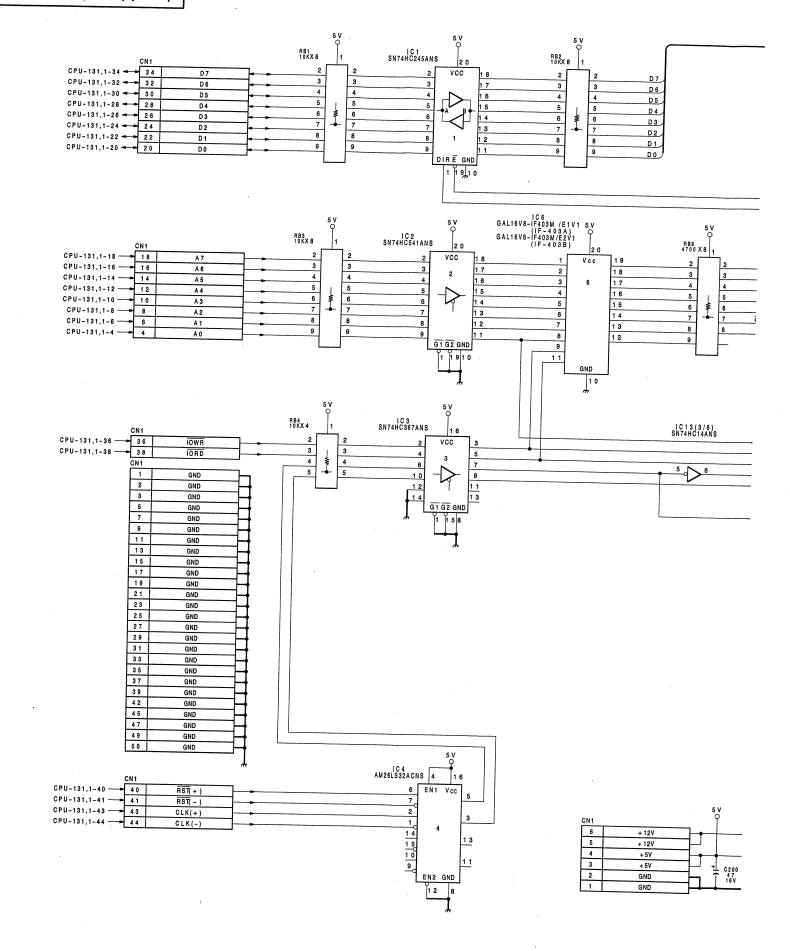
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6 - 8 (a)

IF-403(A,B)(1/2); SWITCH INTERFACE BOARD (FOR KY-239)



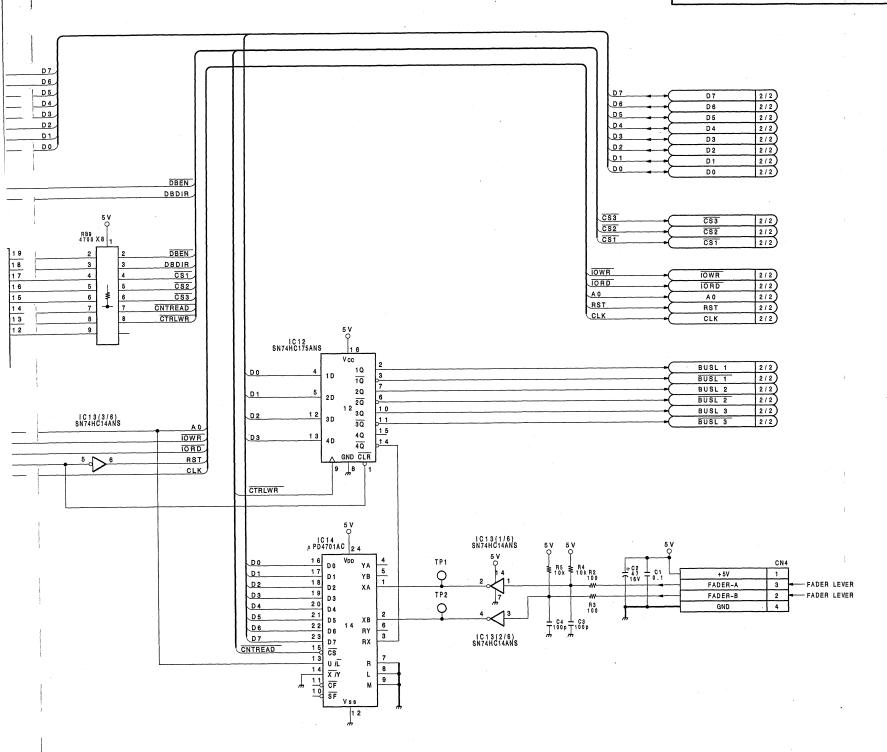
5 – 9

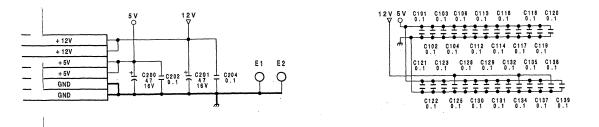
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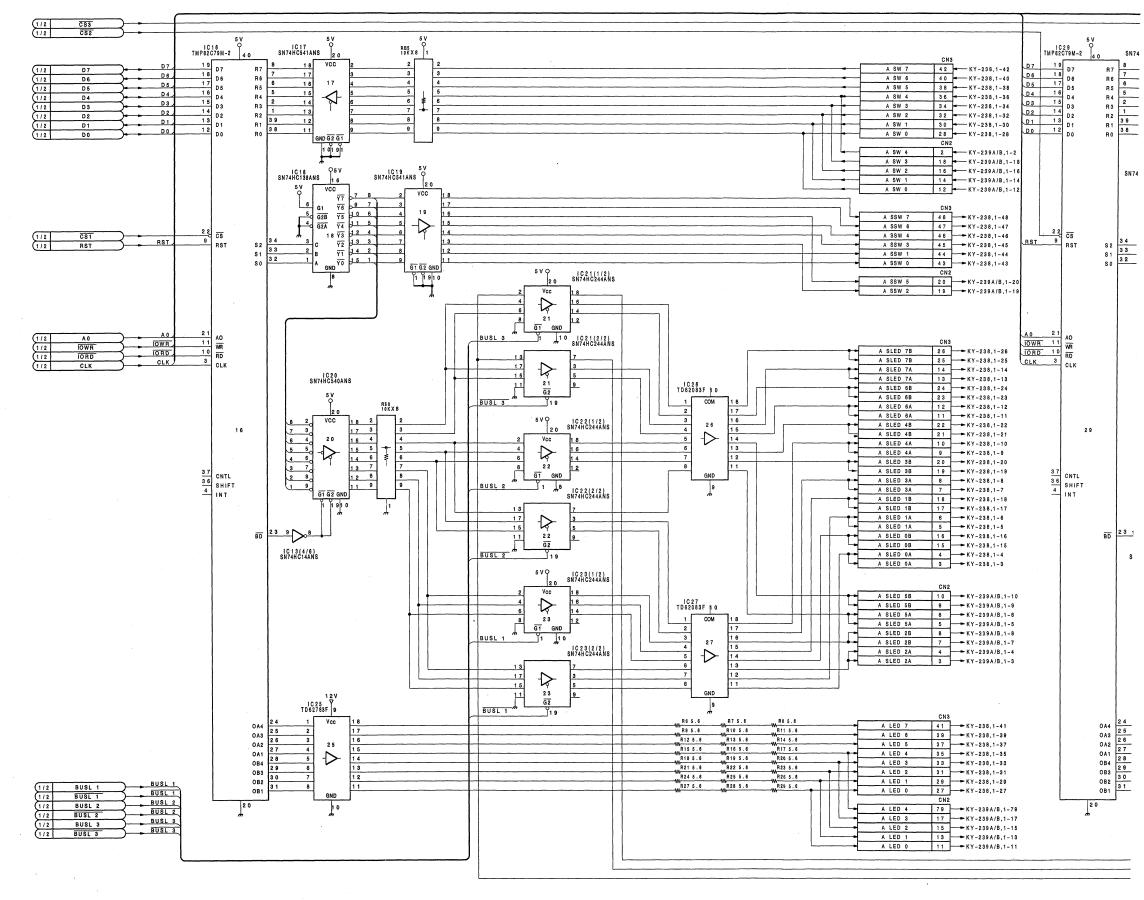




IF-403(A,B) BOARD (1/2)
BOARD NO.1-646-588-11
BKDS-6010

6 – 9

IF-403(A,B)(2/2); SWITCH INTERFACE BOARD(FOR KY-239)



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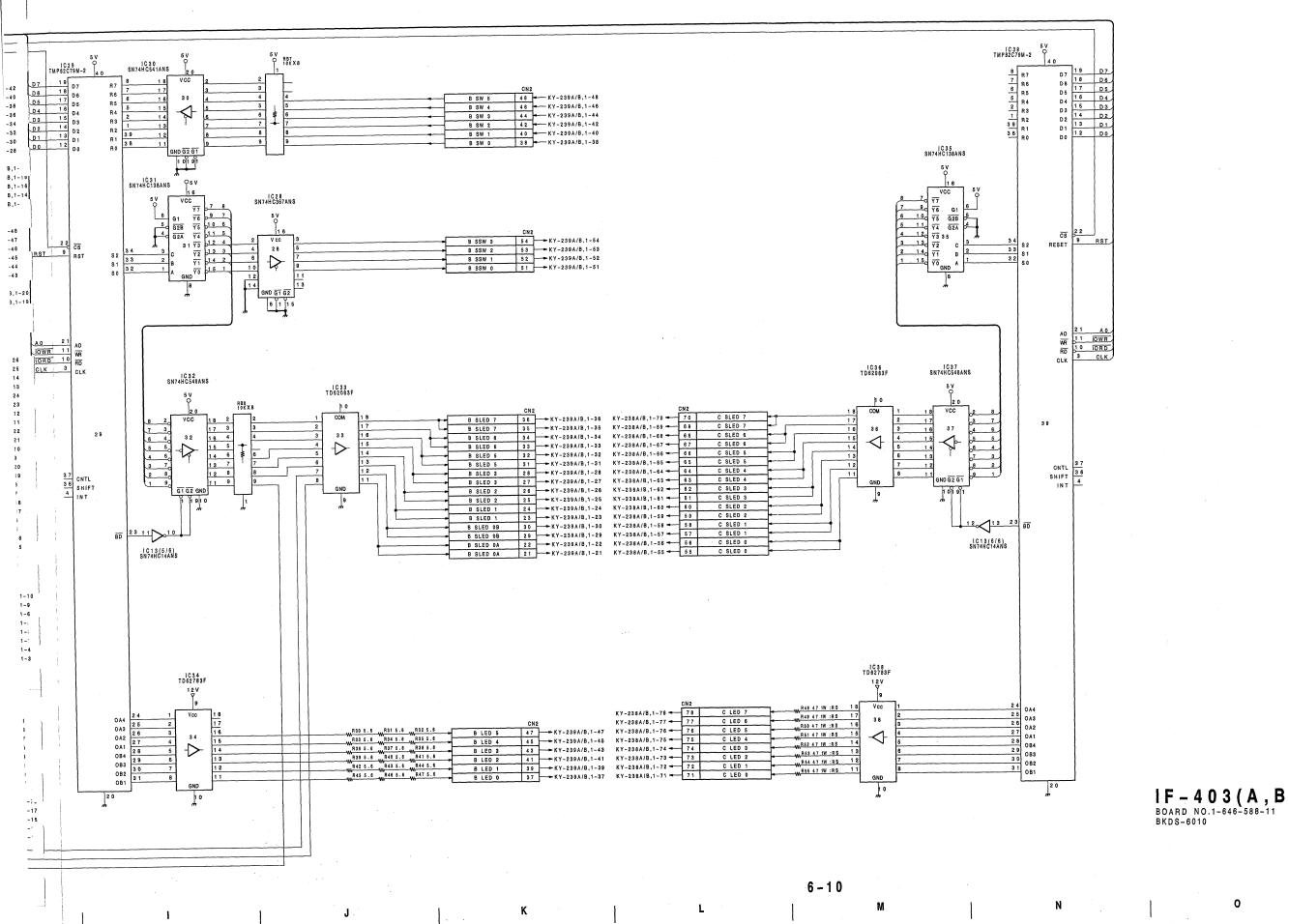
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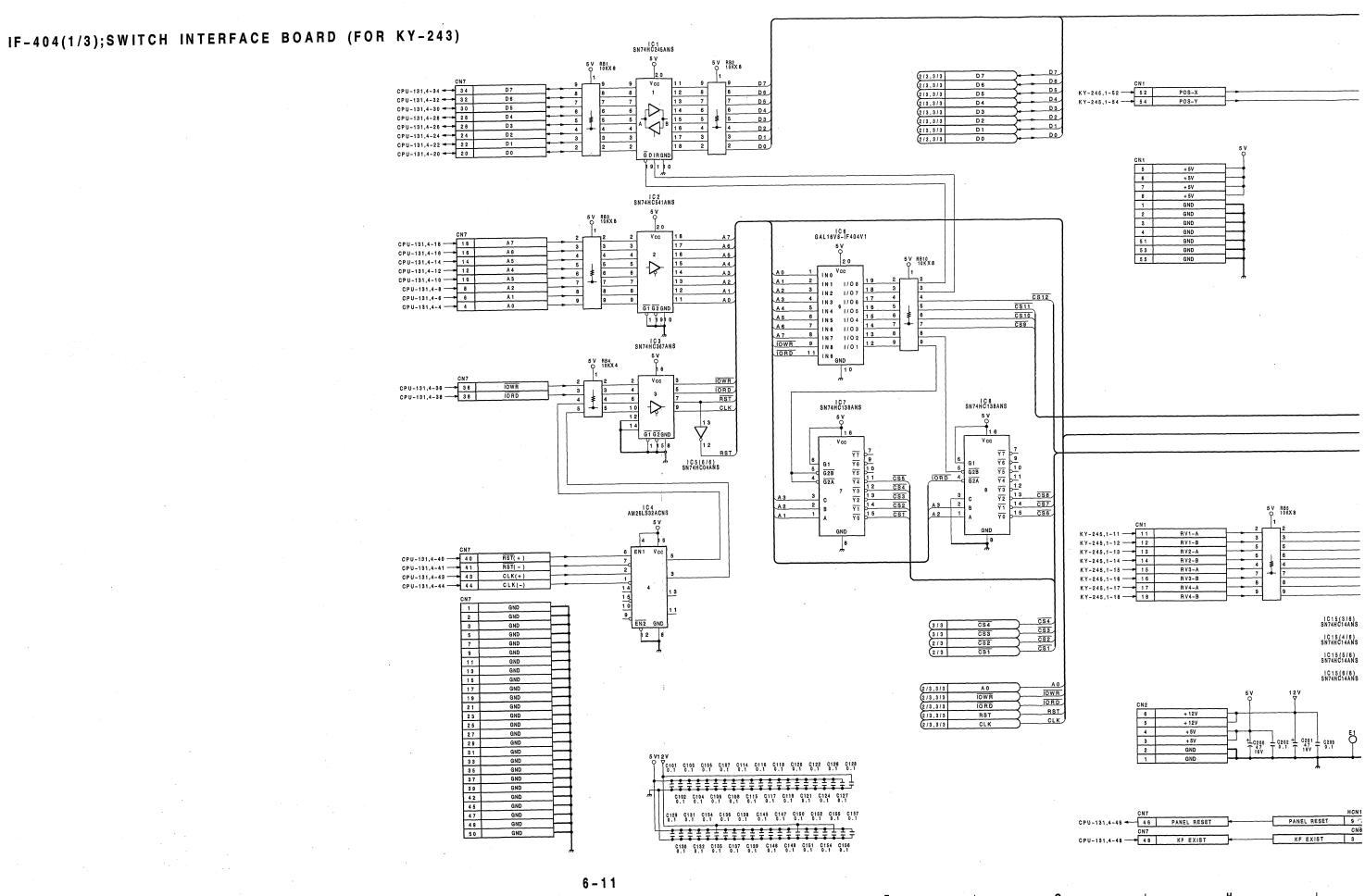
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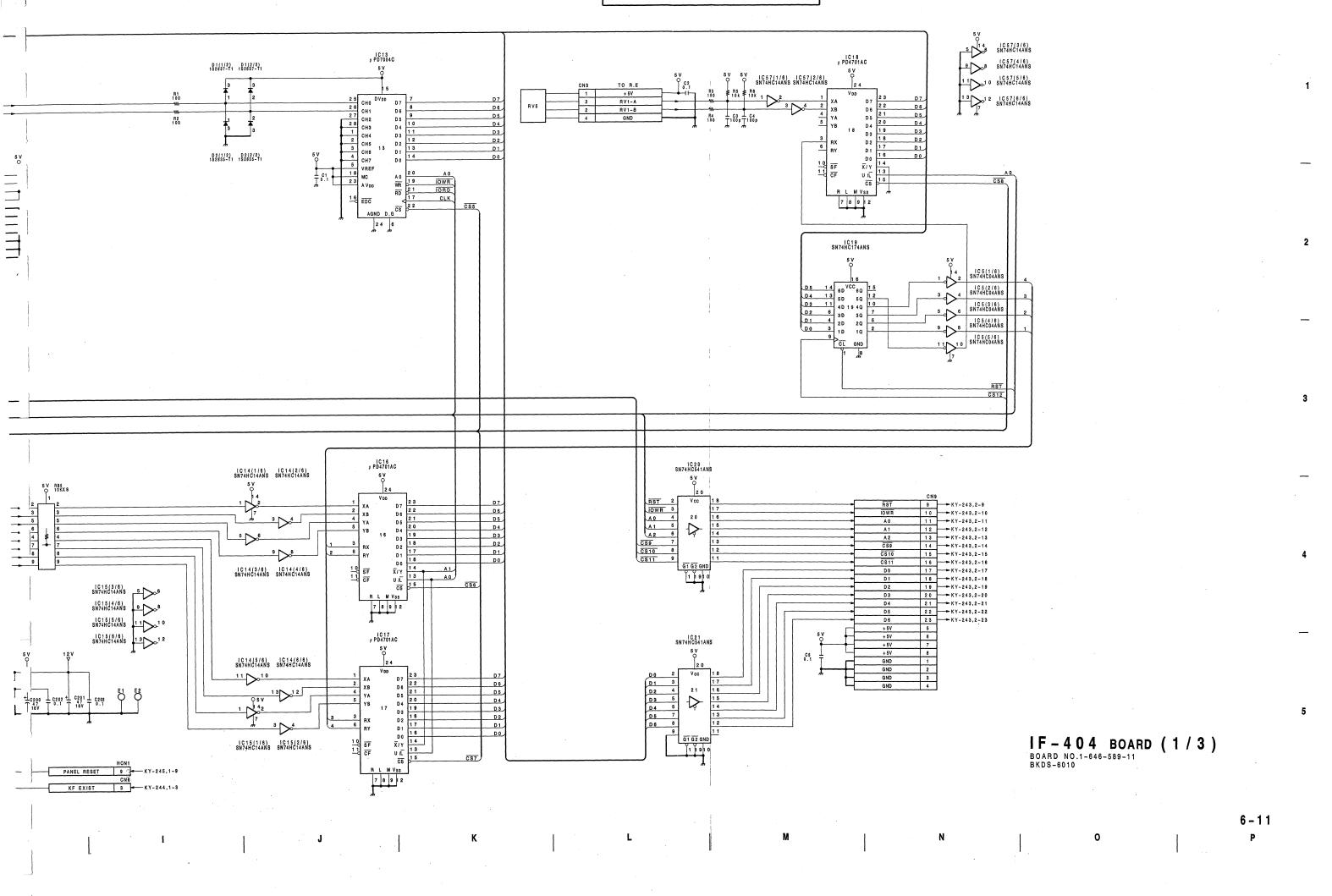
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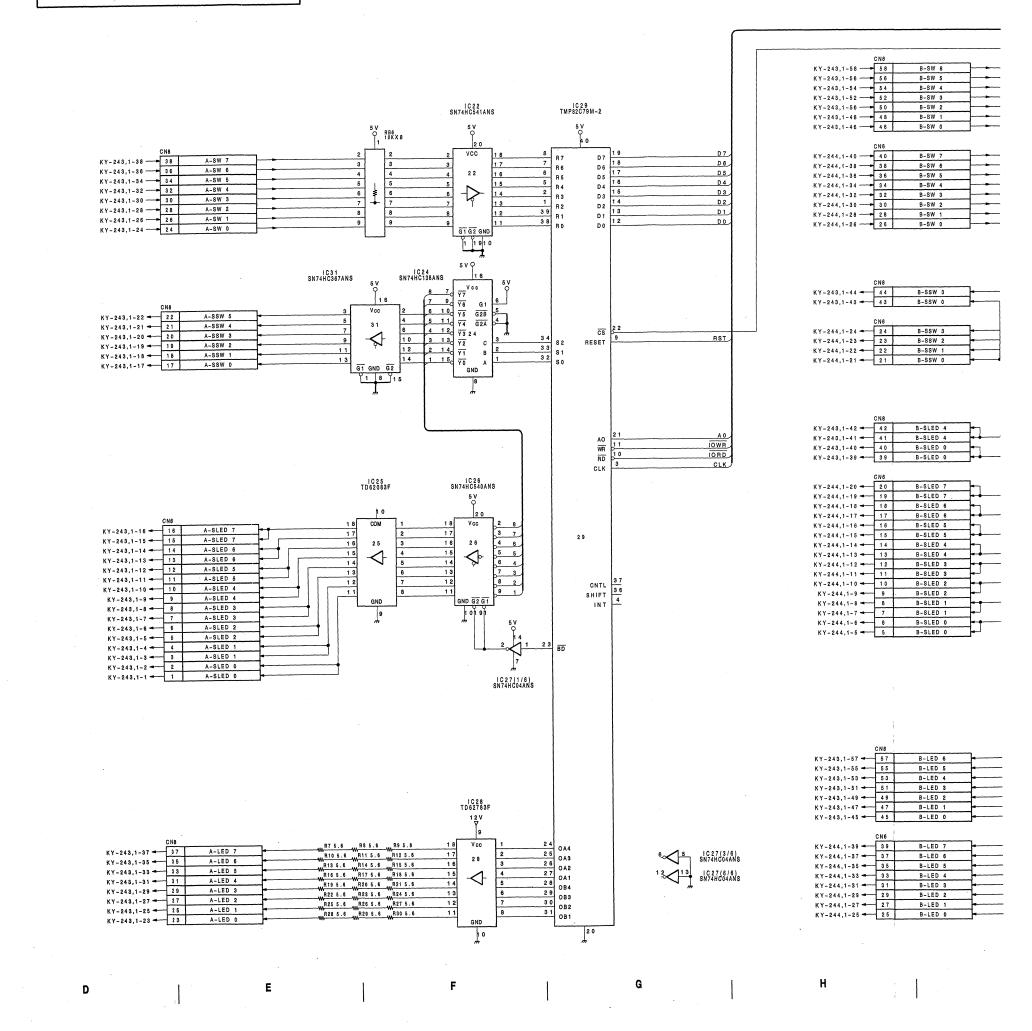
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IF-403(A,B) BOARD (2/2)
BOARD NO.1-646-588-11
BKDS-6010

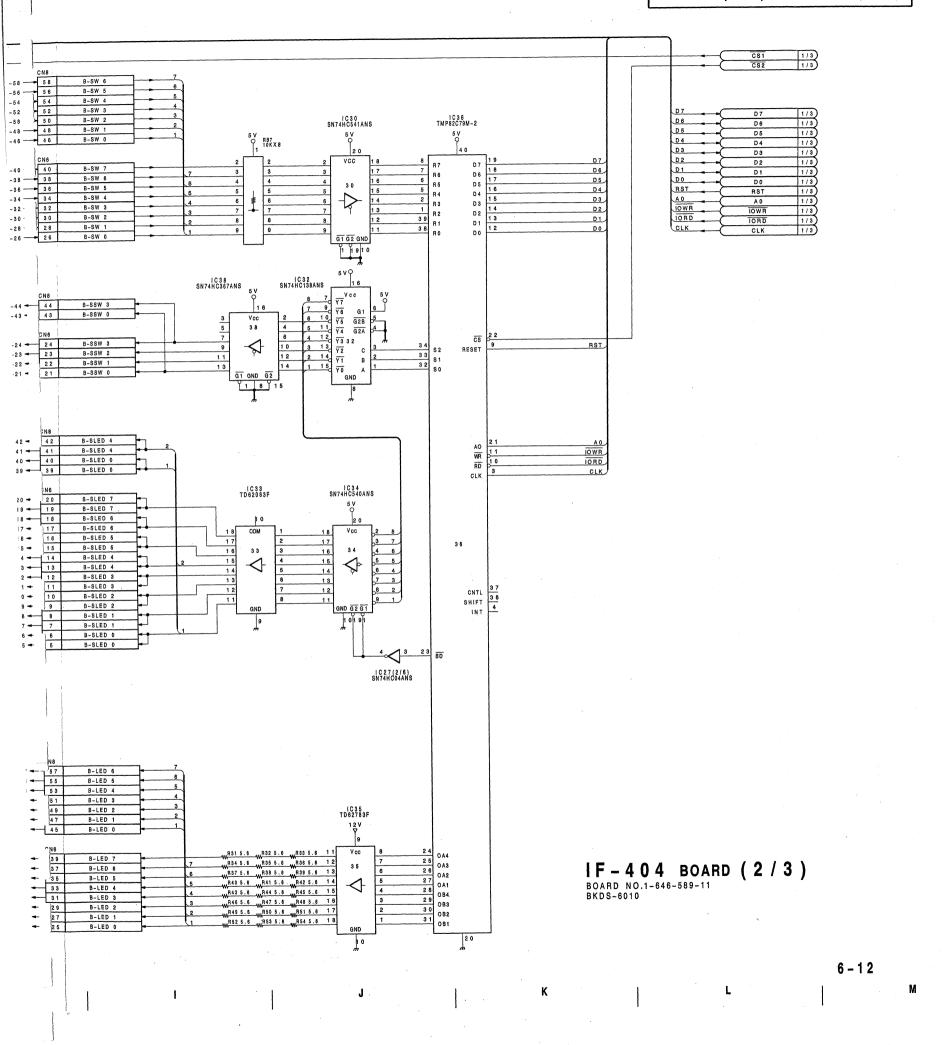


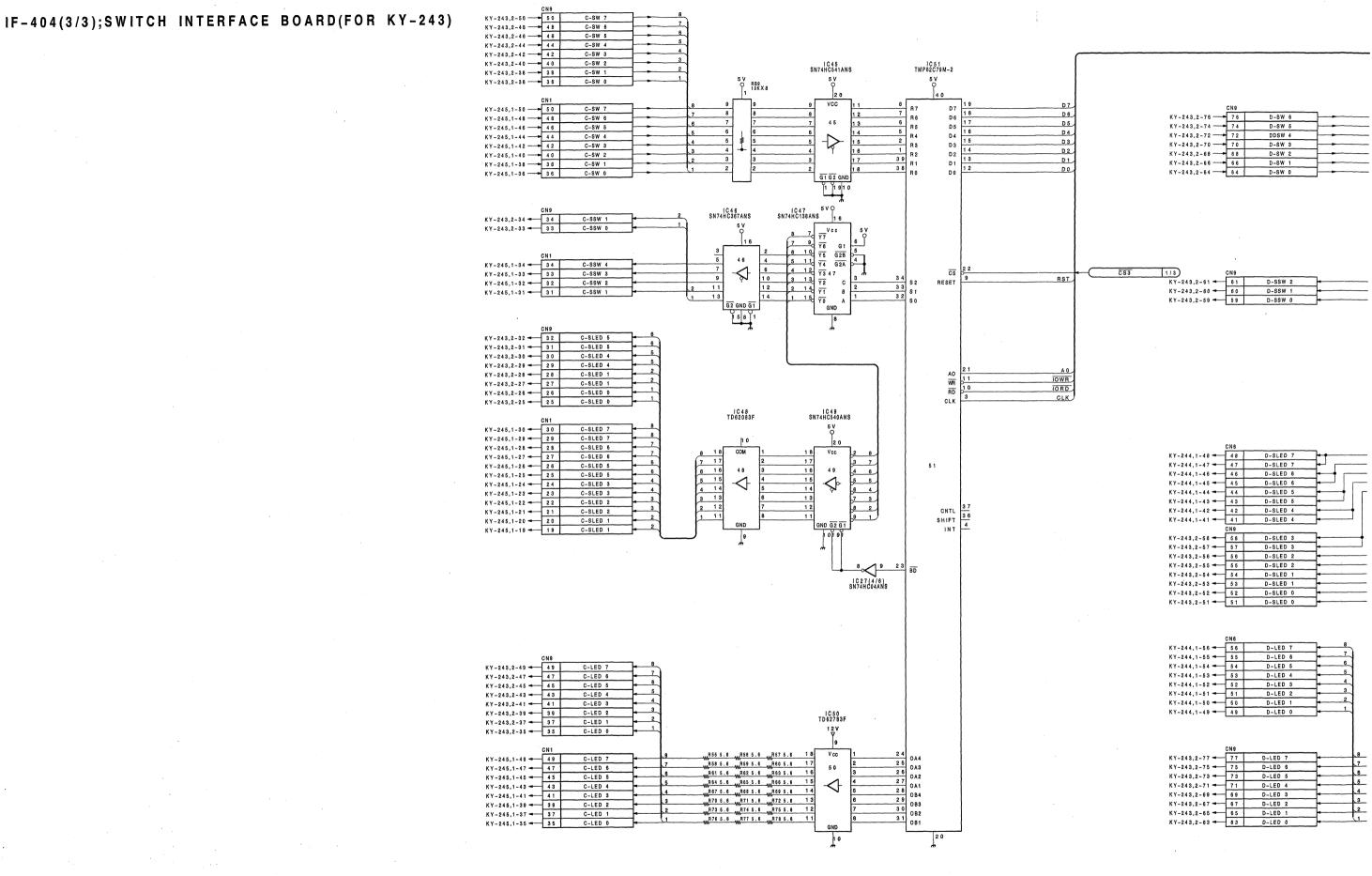




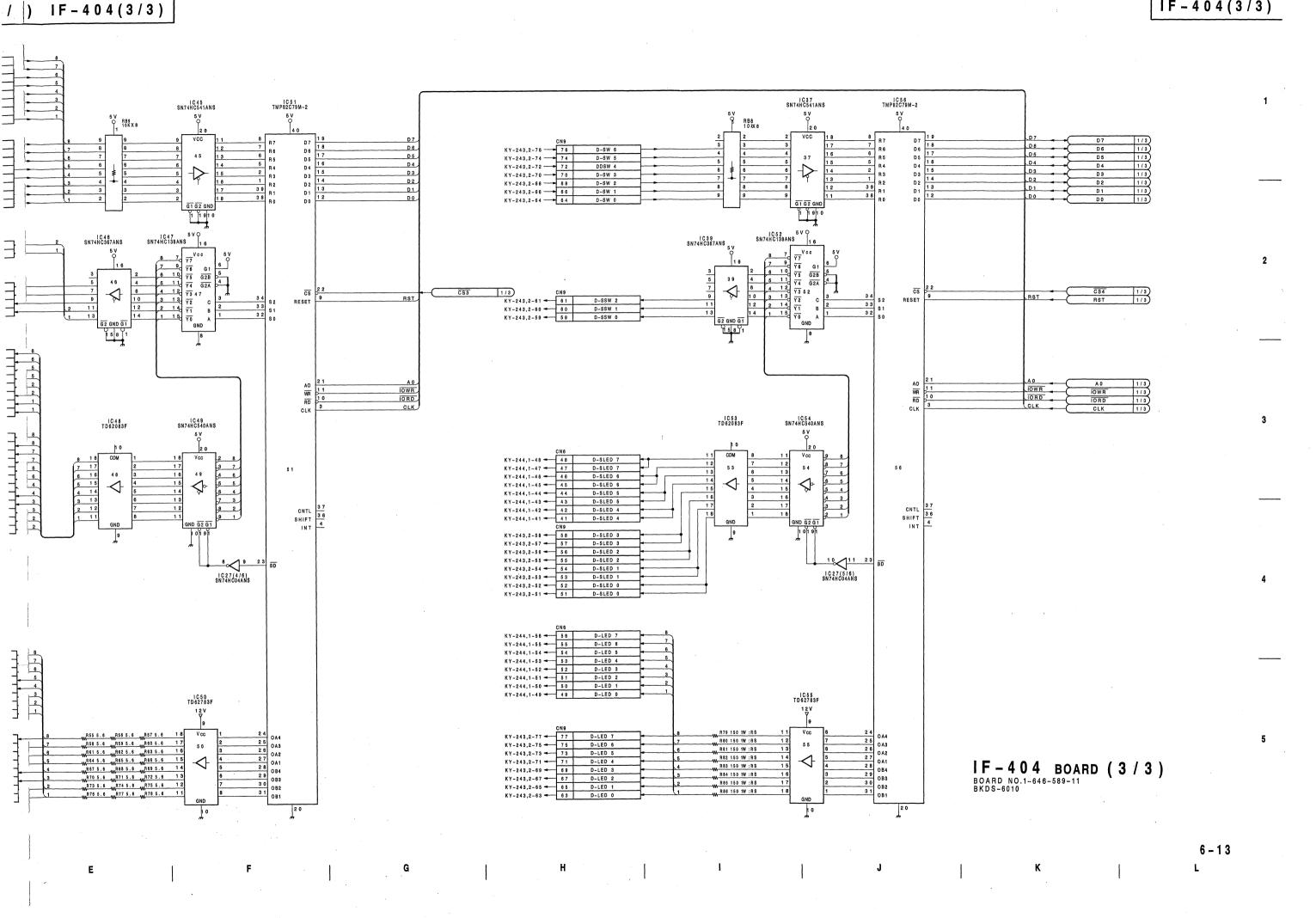
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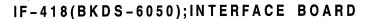
IF-404(2/3); SWITCH INTERFACE BOARD(FOR KY-243)

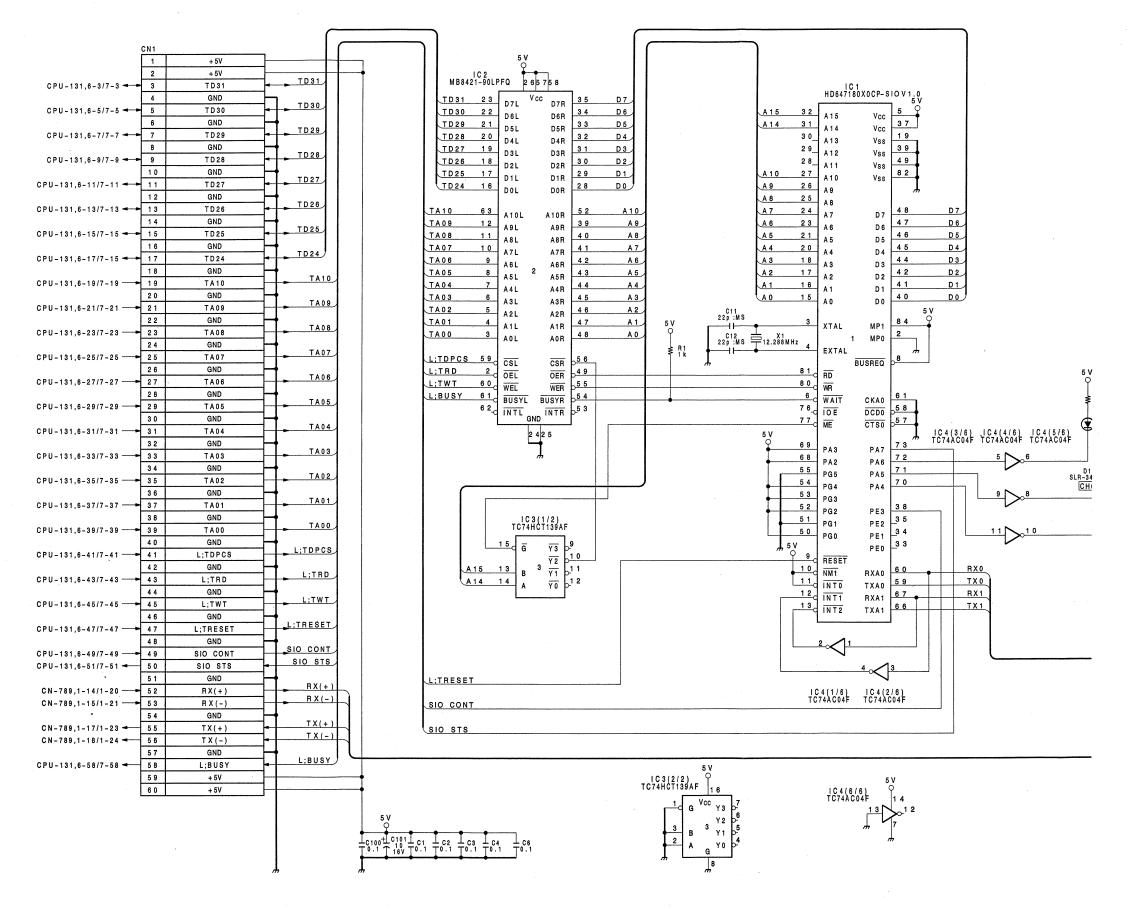




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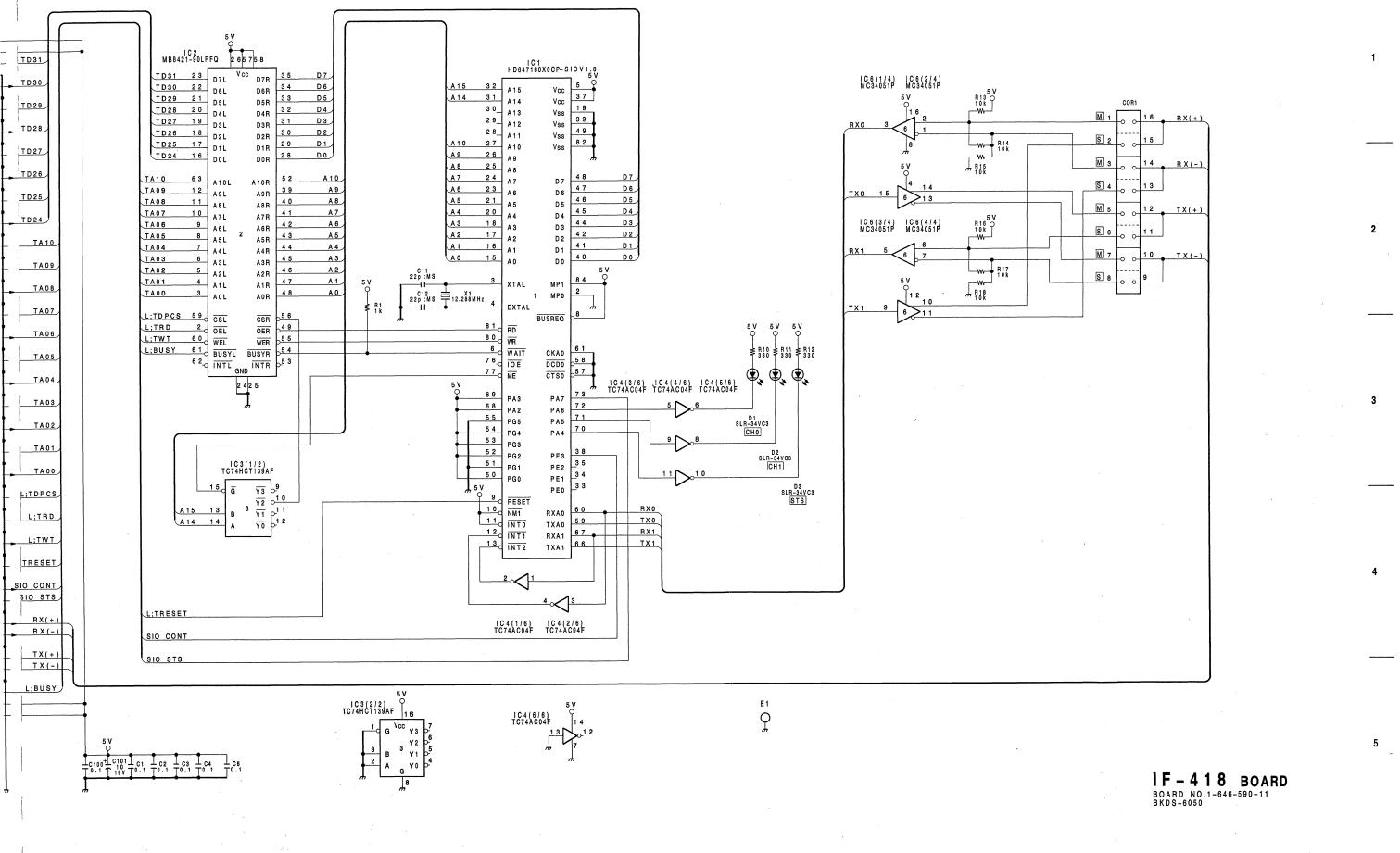
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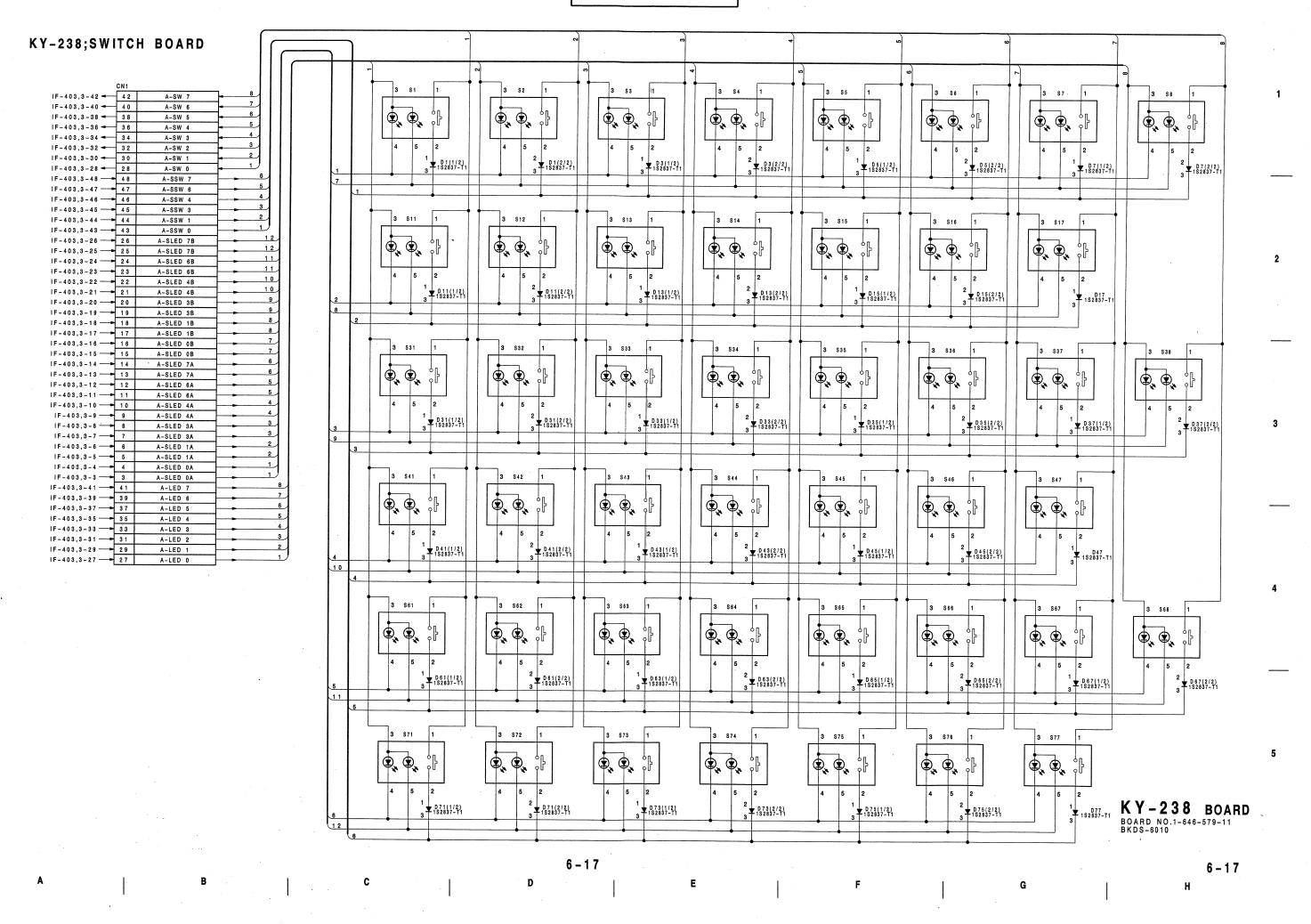
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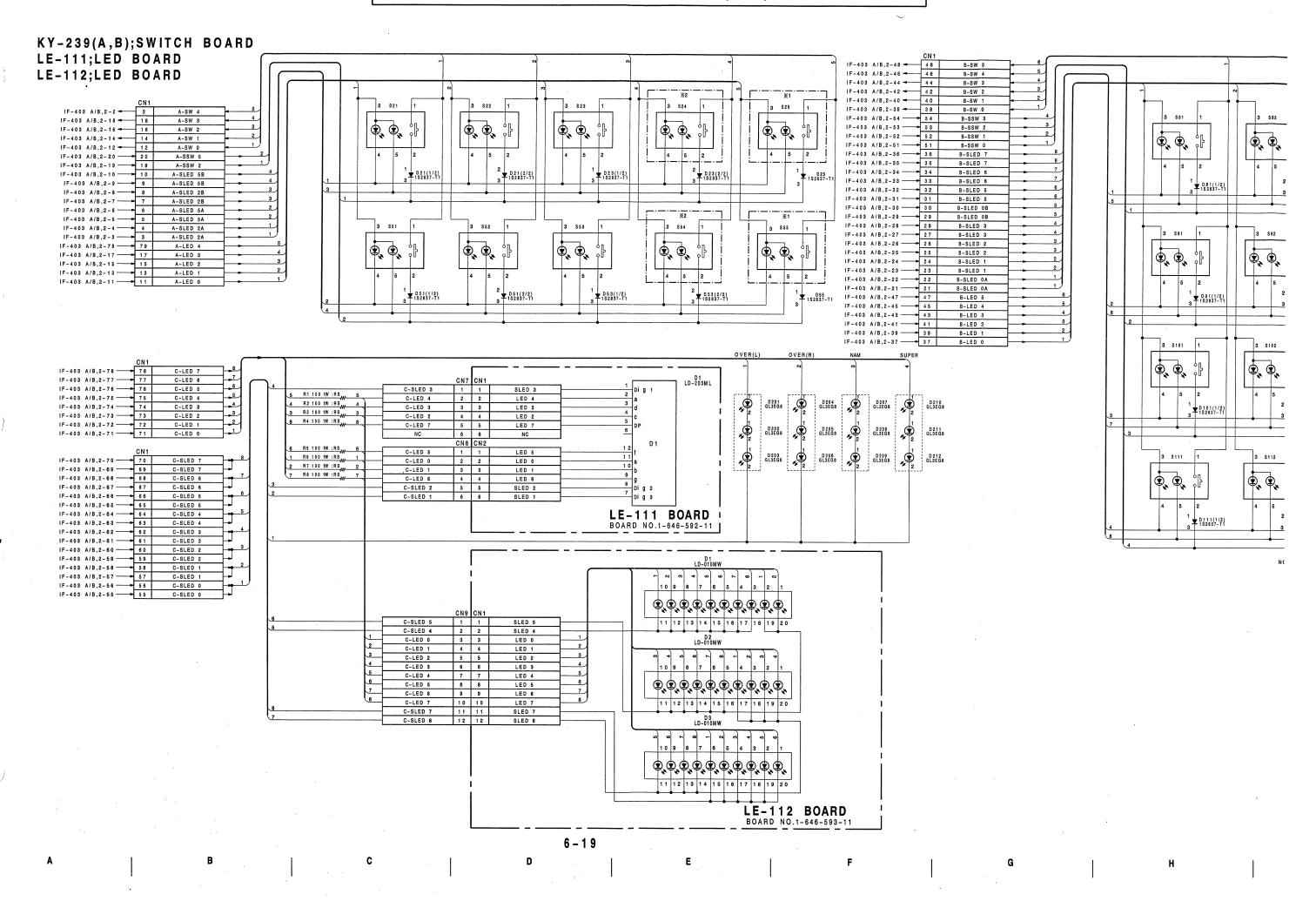
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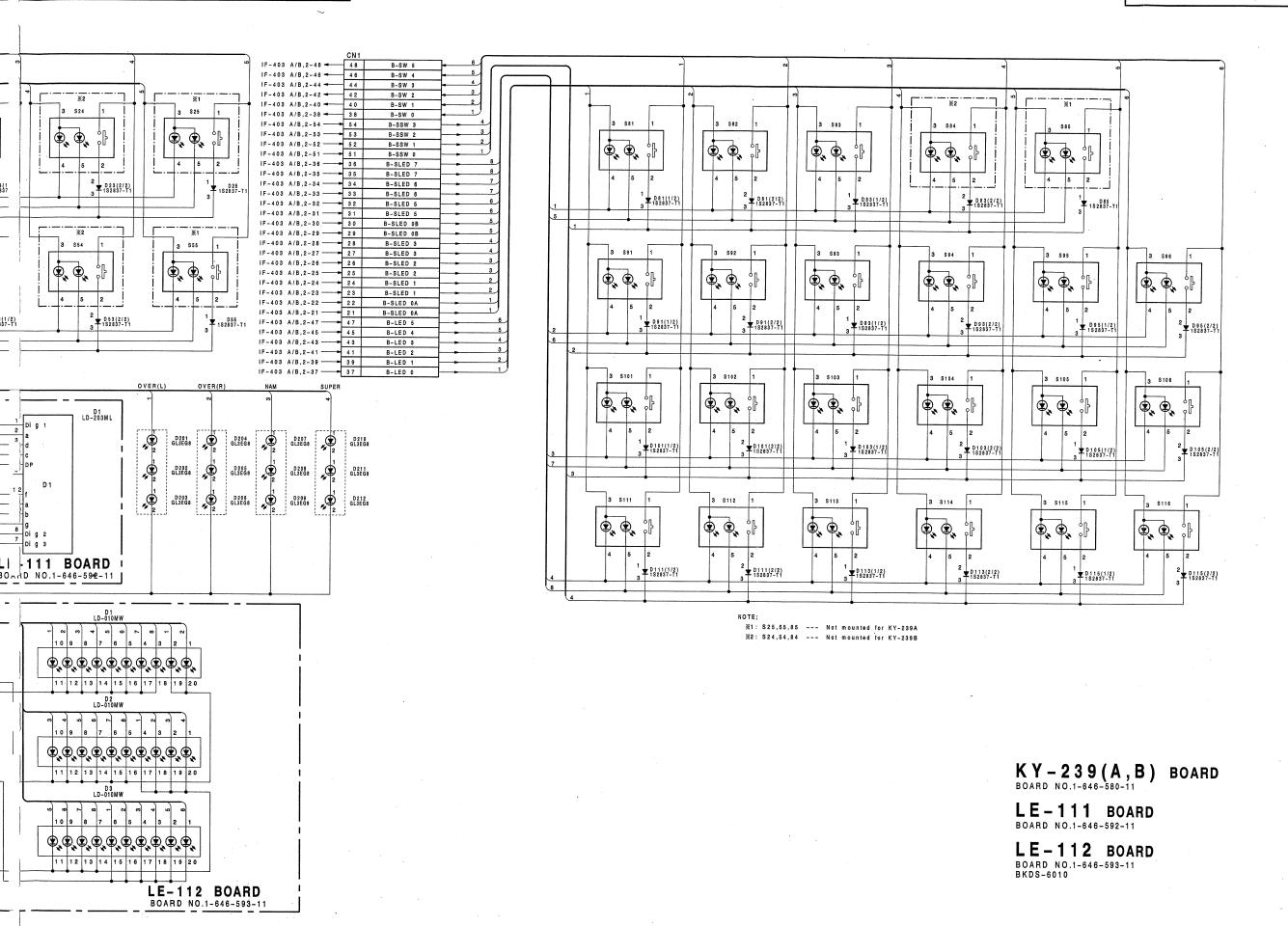


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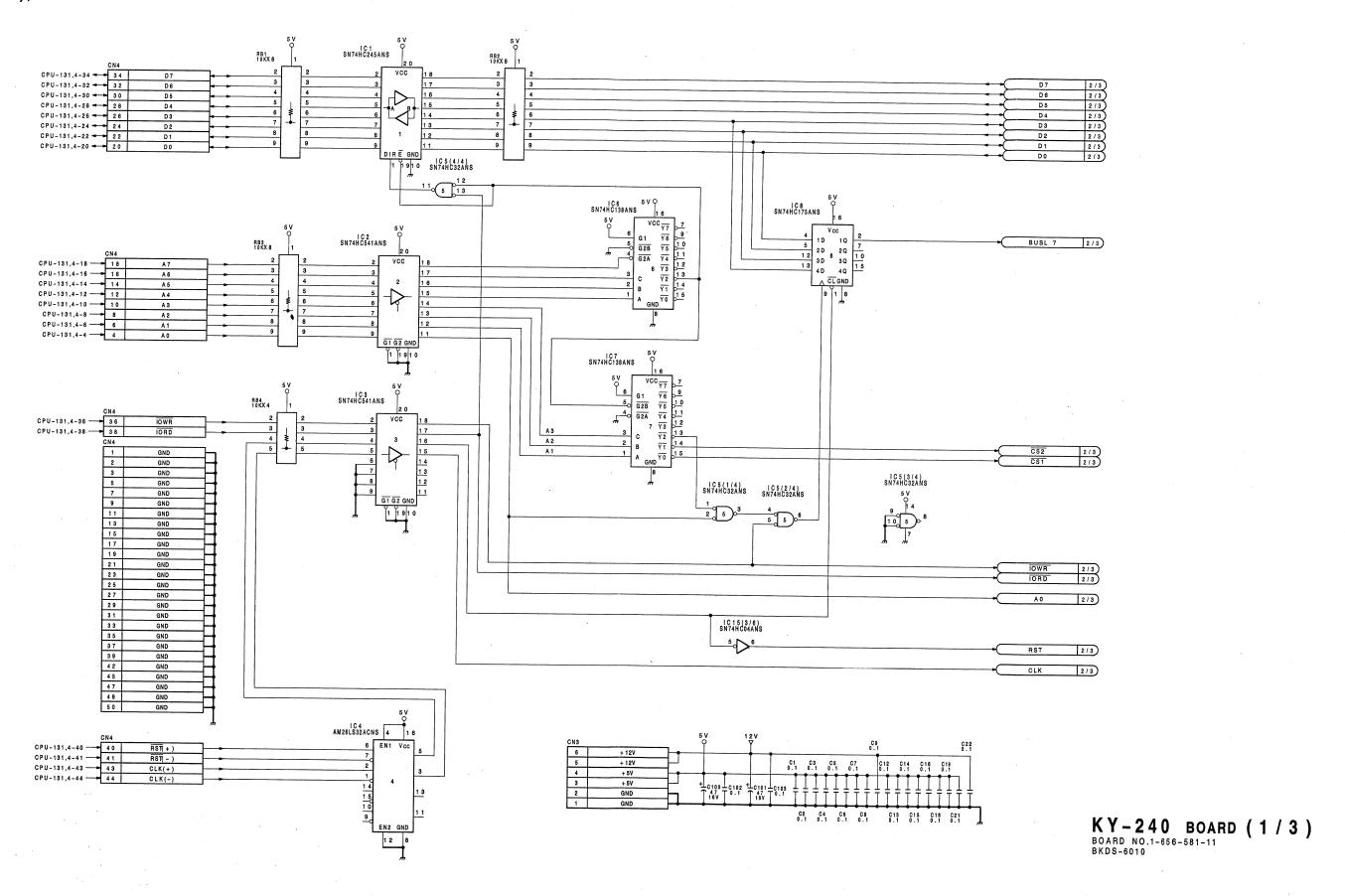






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KY-240(1/3); SWITCH BOARD



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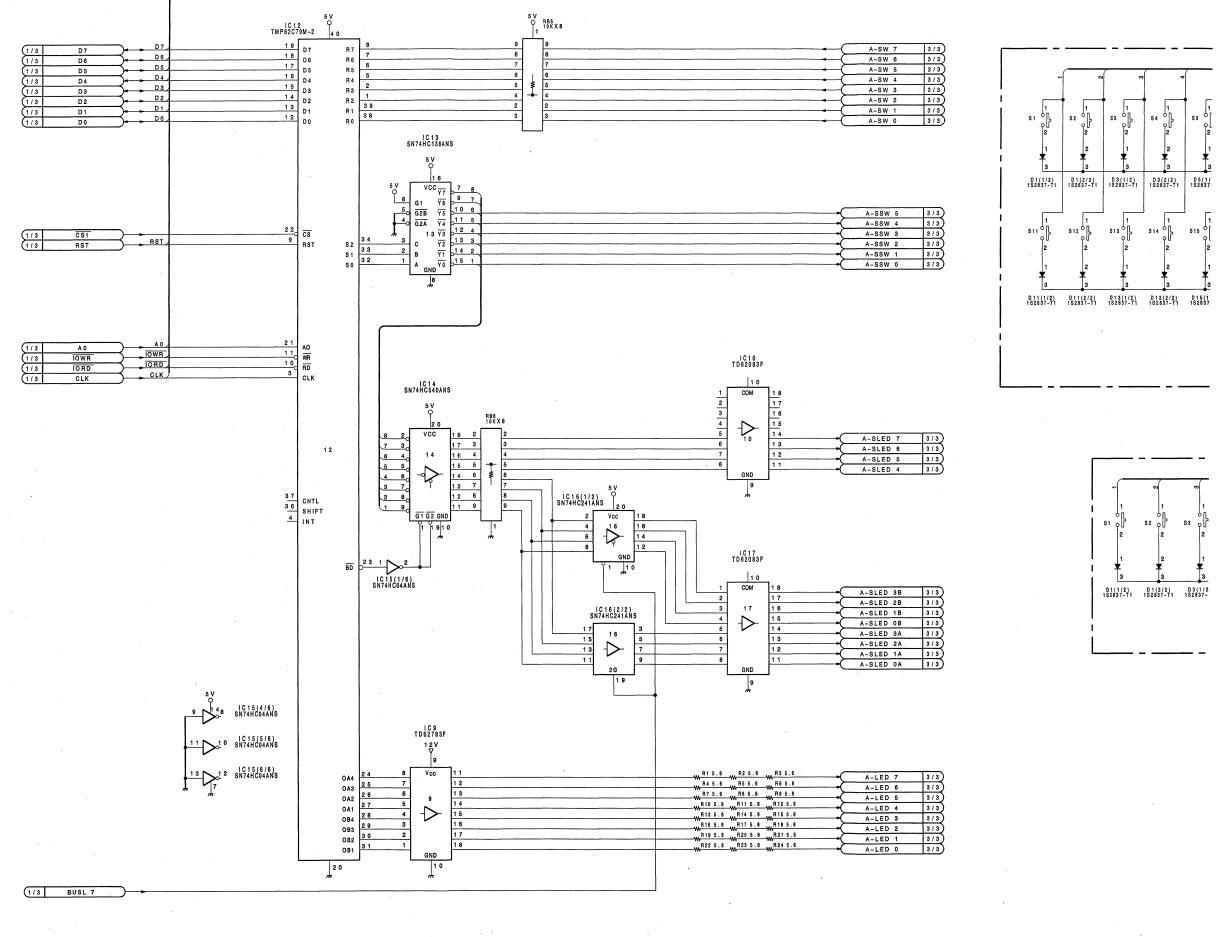
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D (1/3)

6 – 2 1 P

KY-240(2/3); SWITCH BOARD KY-241; SWITCH BOARD KY-242; SWITCH BOARD



6 – 2 2

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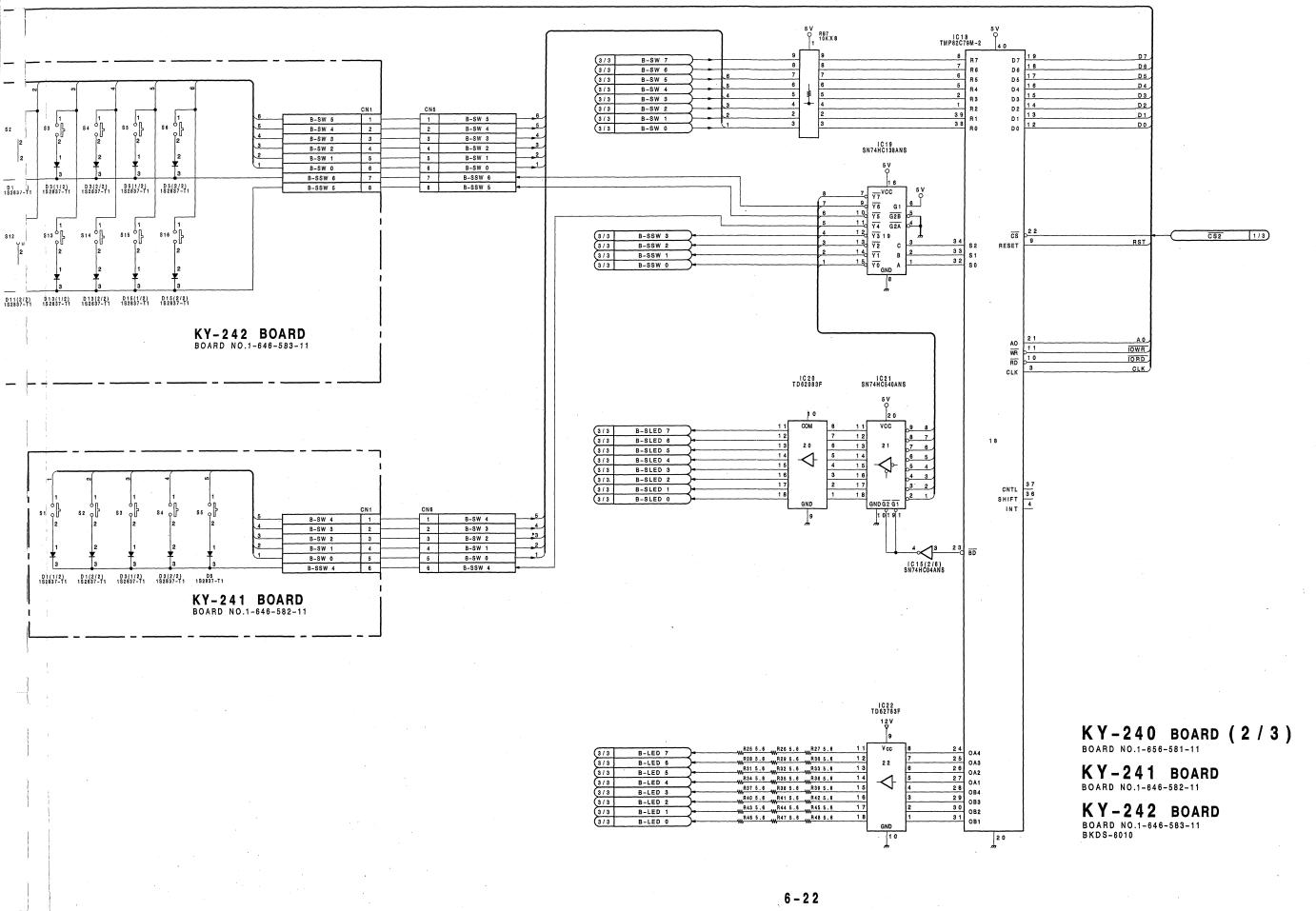
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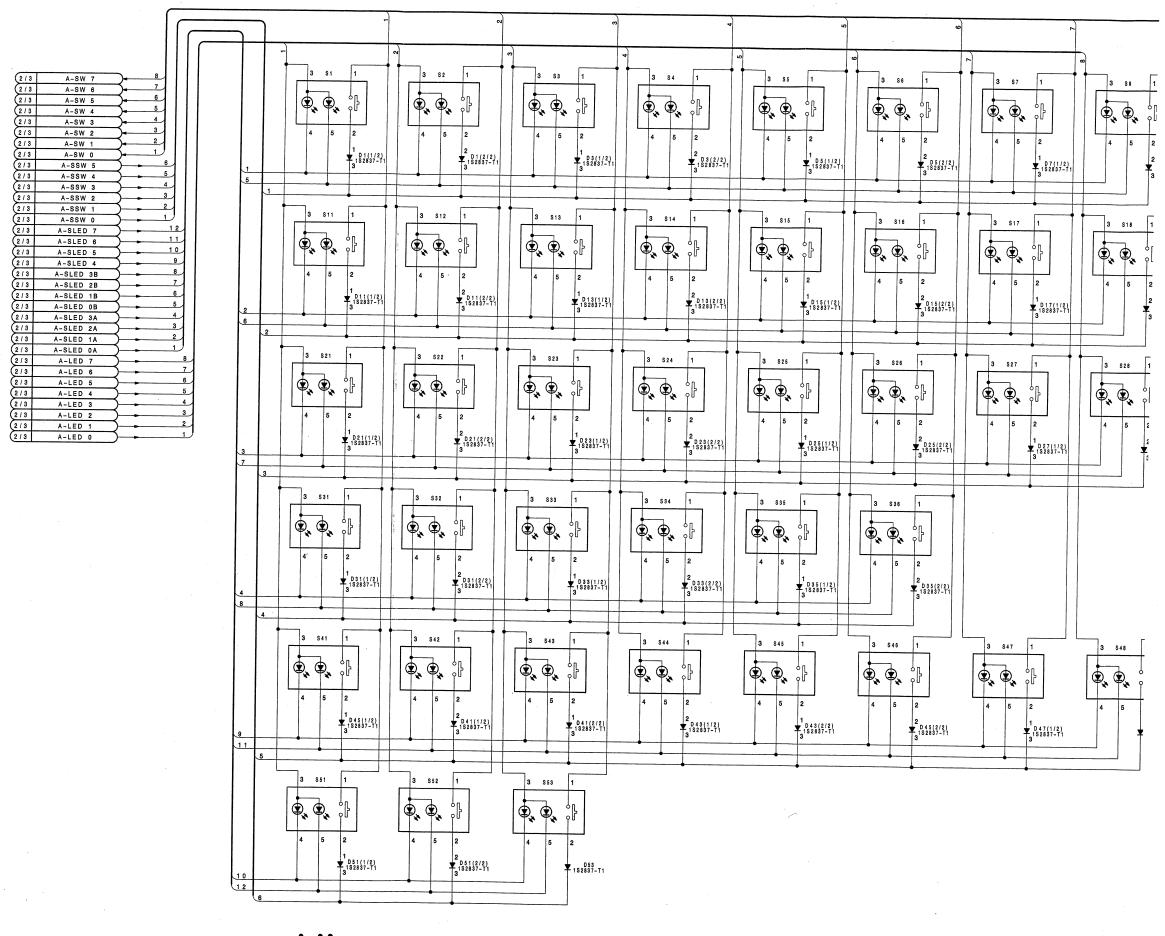
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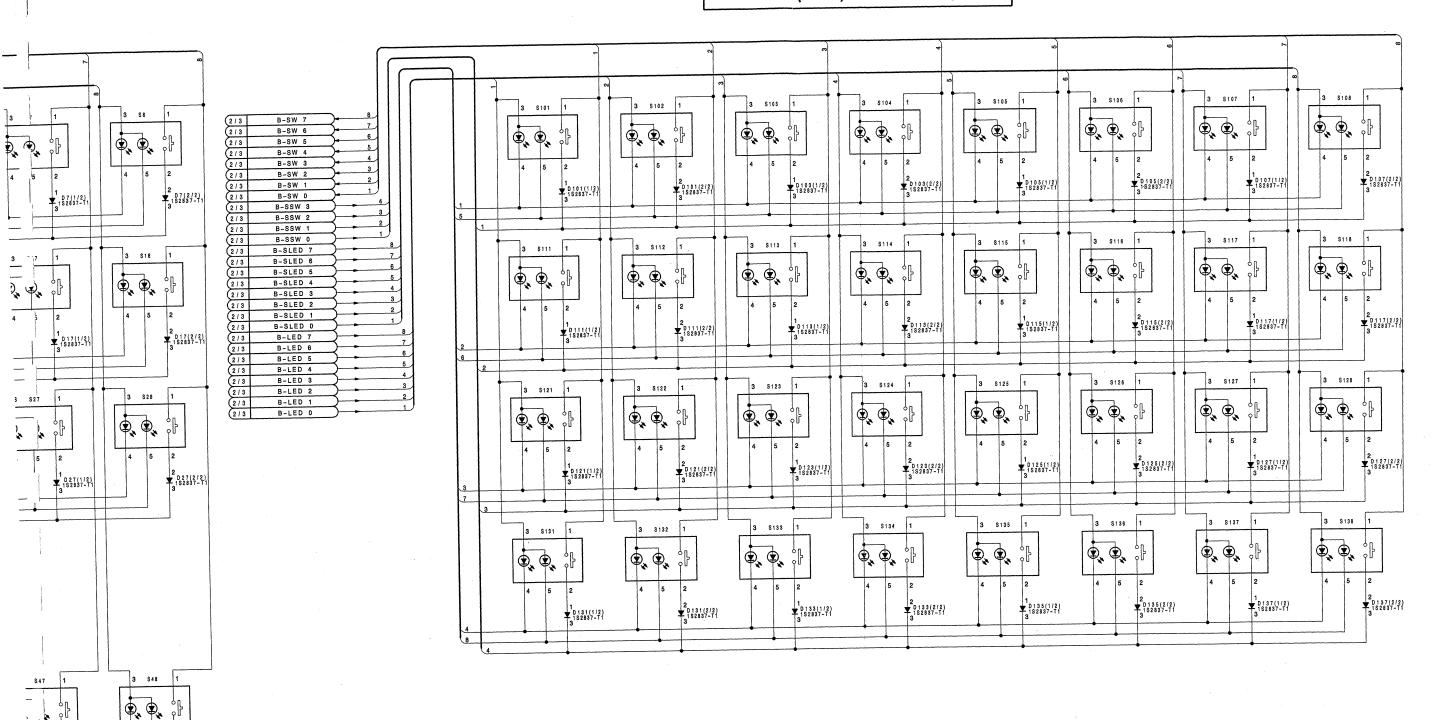


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KY-240(3/3); SWITCH BOARD



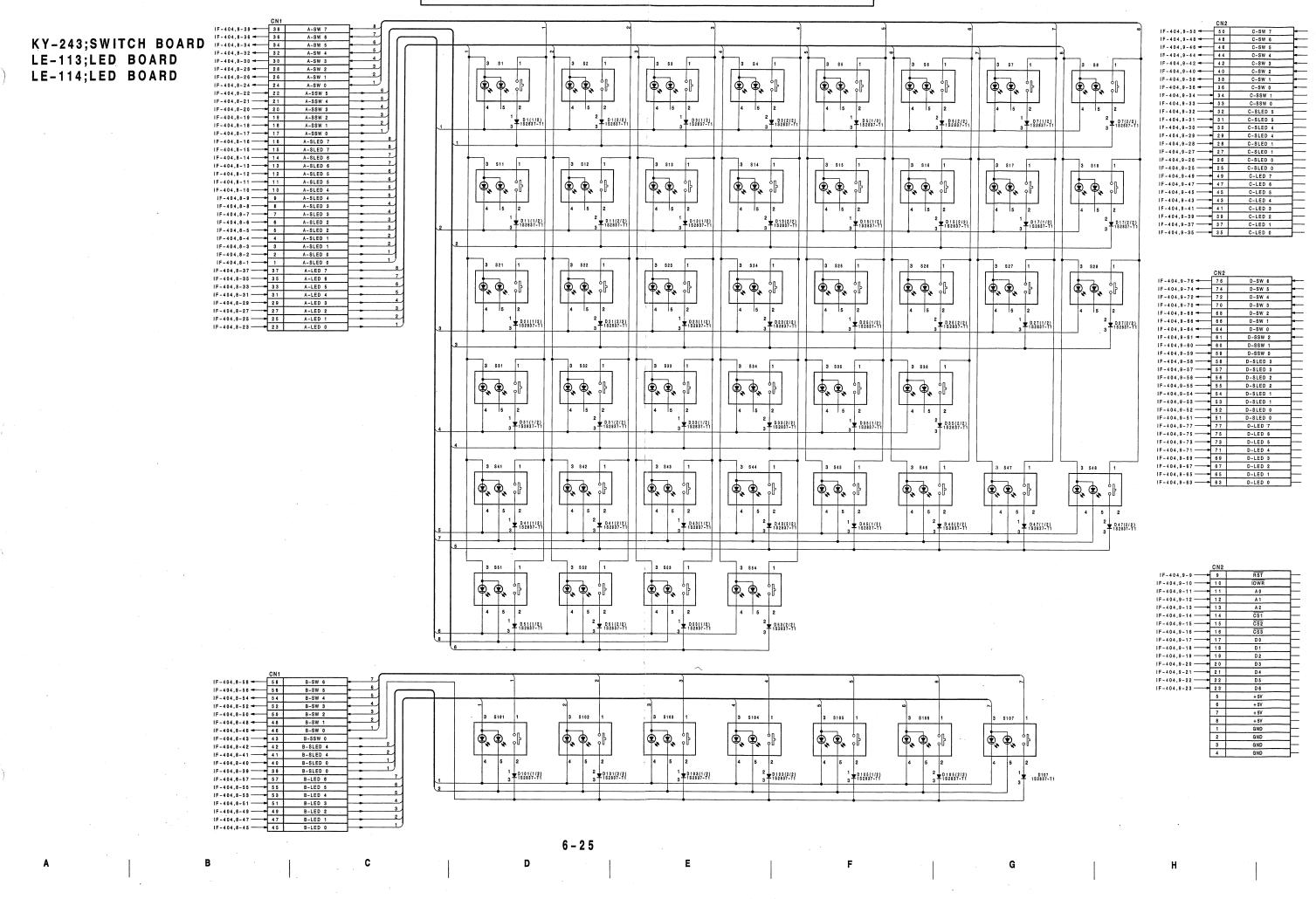
6 - 23

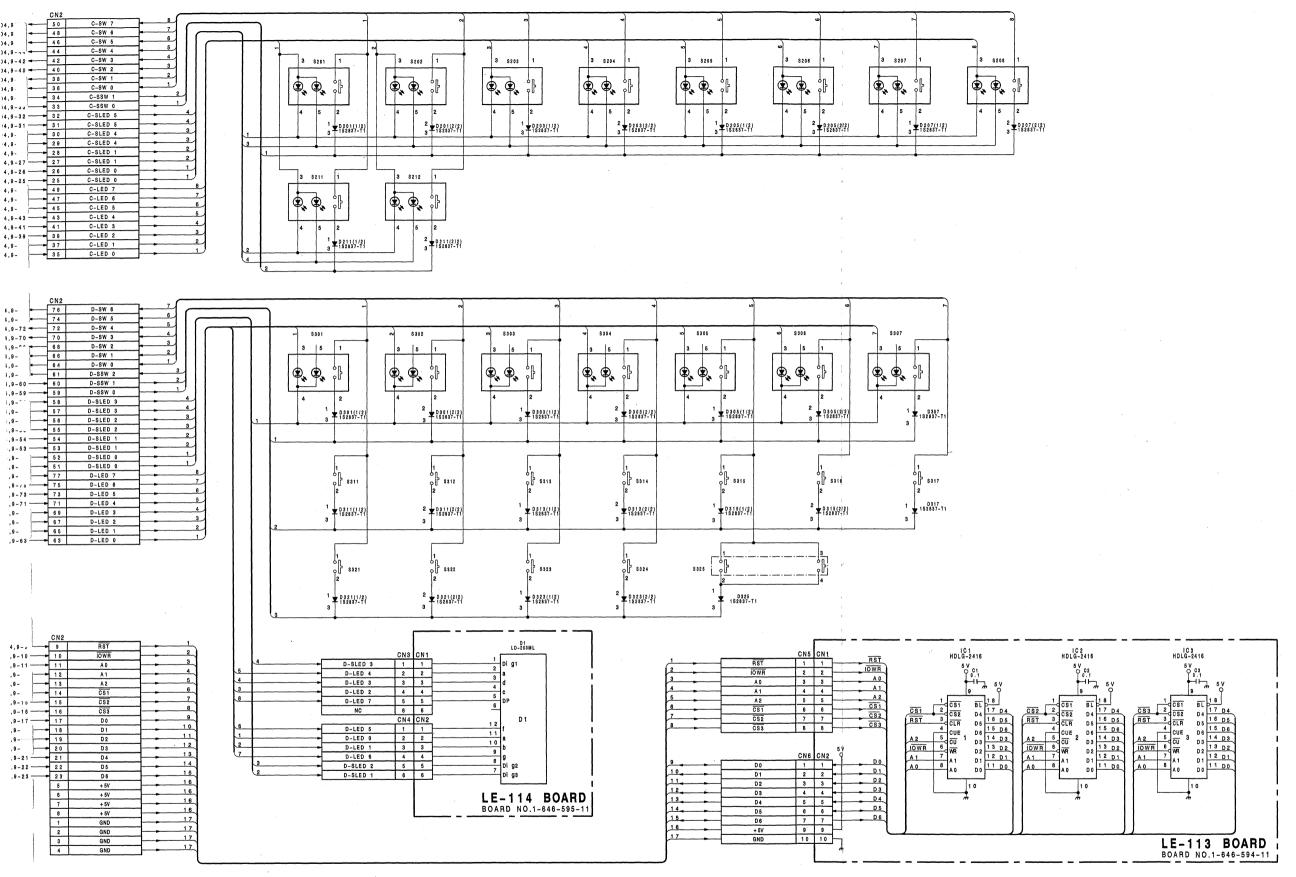


KY-240 BOARD (3/3)
BOARD NO.1-656-581-11
BKDS-6010

6 - 23

D47(2/2)





KY-243 BOARD BOARD NO.1-646-584-11

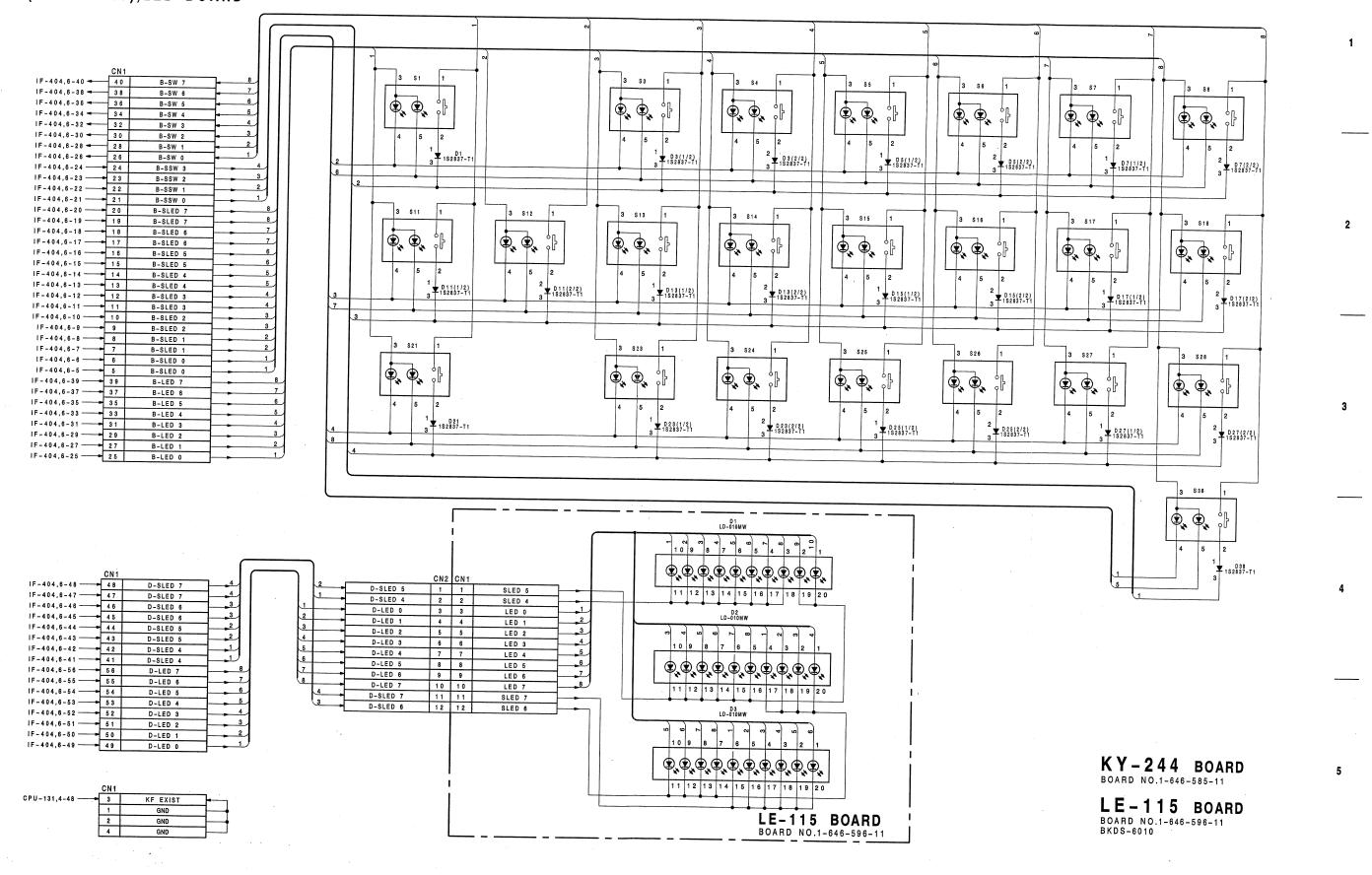
LE-113 BOARD BOARD NO.1-646-594-11

LE-114 BOARD BOARD NO.1-646-595-11 BKDS-6010

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KY-244(BKDS-6050);SWITCH BOARD LE-115(BKDS-6050);LED BOARD



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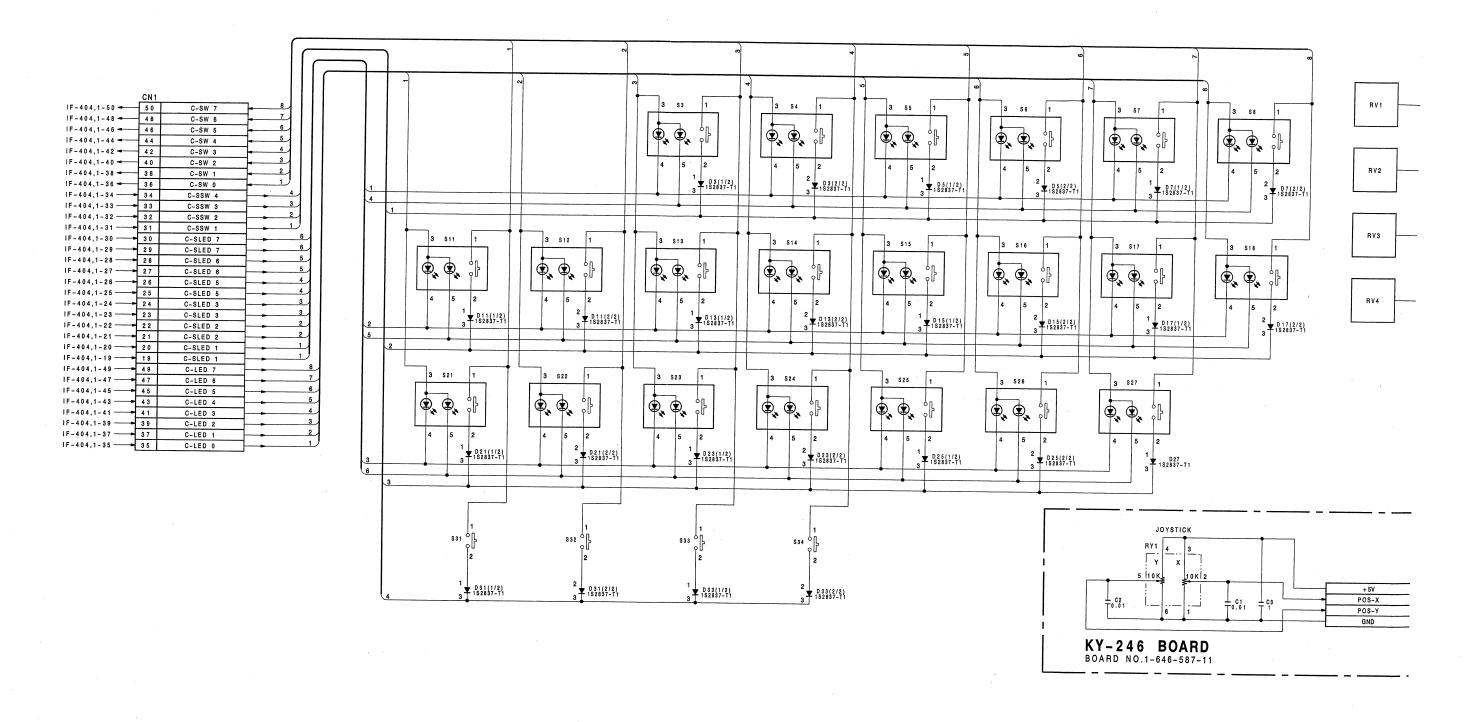
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KY-245; SWITCH BOARD KY-246; SWITCH BOARD

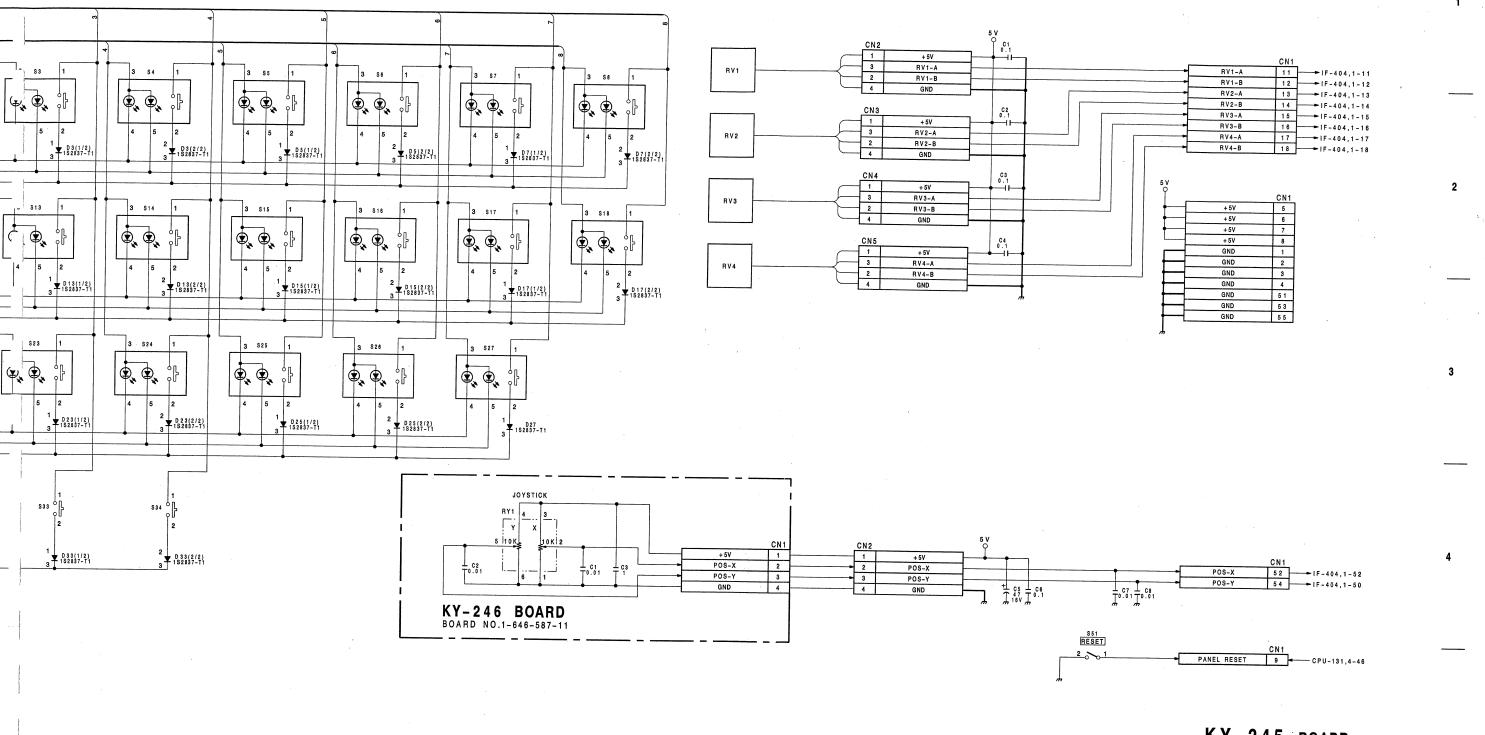


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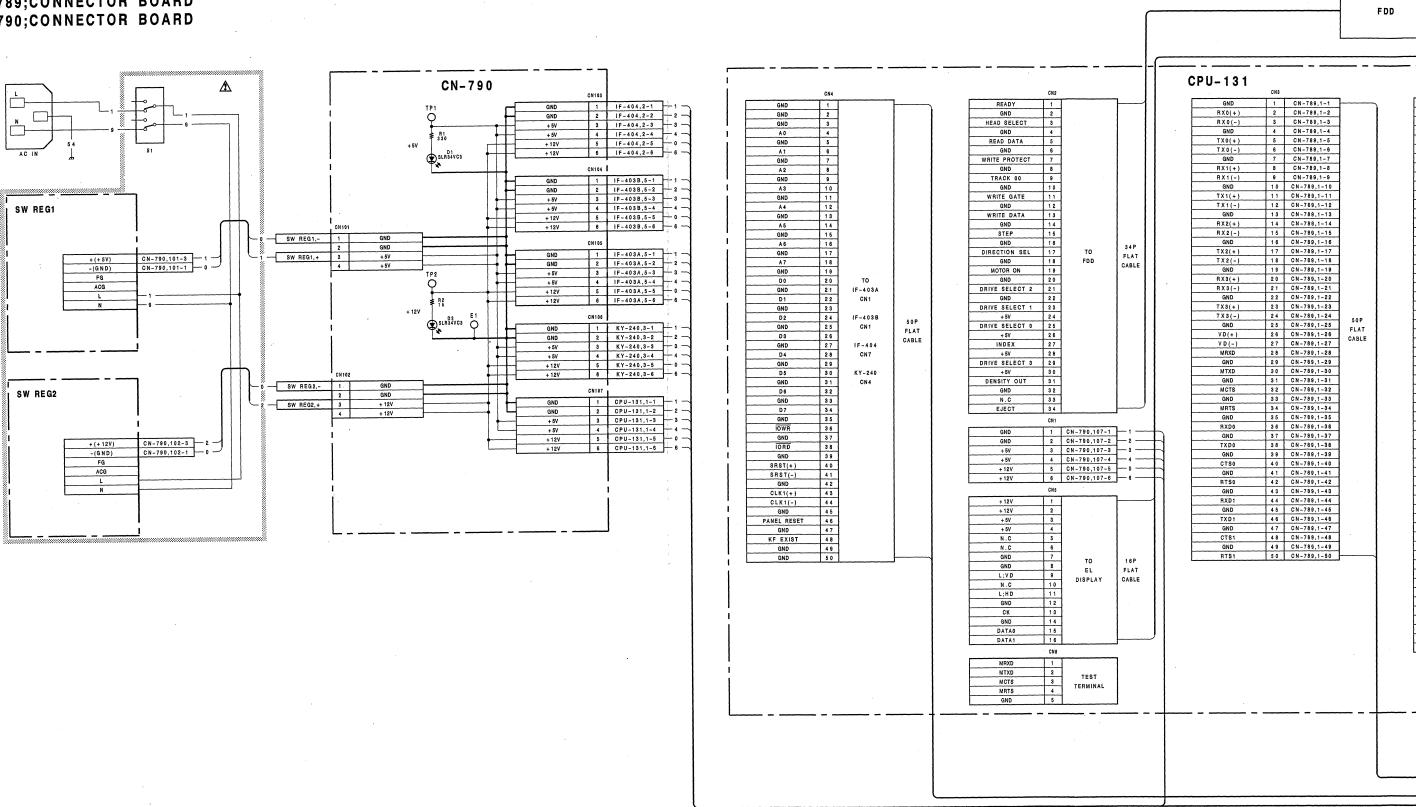


KY-245 BOARD BOARD NO.1-646-586-11

KY-246 BOARD BOARD NO.1-646-587-11 BKDS-6010

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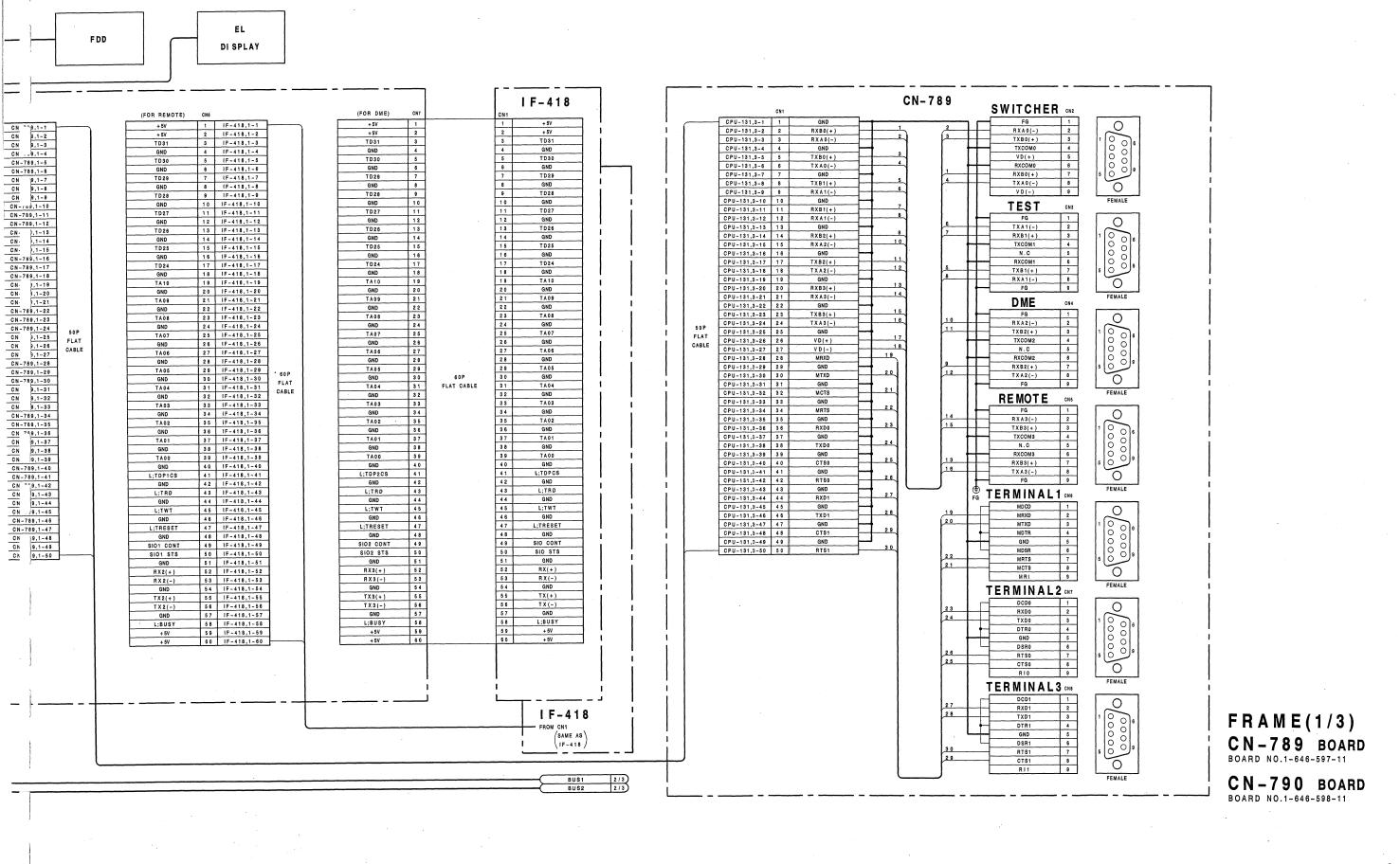


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	CNT90,105-1 1 GND CNT90,105-2 2 GND CNT90,105-3 3 +5V CNT90,105-3 3 +5V CNT90,105-4 4 +5V CNT90,105-5 5 +12V CNT90,105-6 6 +12V CNT90,105-6 6 +12V CNT90,105-6 6 -12V CPU-131,4-1 1 GND CPU-131,4-2 2 GND CPU-131,4-3 3 GND CPU-131,4-4 4 A0 CPU-131,4-5 5 GND CPU-131,4-6 6 A1 CPU-131,4-7 7 GND CPU-131,4-7 7 GND CPU-131,4-7 7 GND CPU-131,4-8 8 A2	N.C	N.C 1 N.C 2 A SLED DA 3 A SLED DA 4 A SLED 1A 5 A SLED 1A 6 A SLED 3A 7 A SLED 3A 8 A SLED 4A 9 A SLED 4A 10 A SLED 5A 11 A SLED 5A 11 A SLED 5A 12 A SLED 5A 12 A SLED 7A 14 A SLED 7A 14 A SLED 7A 14 A SLED 0B 15 A SLED 0B 16 A SLED 1B 17 A SLED 1B 17 A SLED 1B 18 A SLED 3B 19	CN1 1 N.C 2 N.C 3 A SLED 0A 4 A SLED 0A 5 A SLED 1A 6 A SLED 1A 7 A SLED 3A 8 A SLED 3A 9 A SLED 4A 10 A SLED 4A 11 A SLED 6A 12 A SLED 6A 13 A SLED 7A 14 A SLED 7A 15 A SLED 0B 16 A SLED 0B 17 A SLED 0B 17 A SLED 1B	IF-403A,2-1 1
SOP FLAT CABLE	CPU-131,4-9 9 GND CPU-131,4-10 10 A3 CPU-131,4-11 11 GND CPU-131,4-12 12 A4 CPU-131,4-13 13 GND CPU-131,4-14 14 A5 CPU-131,4-15 15 GND CPU-131,4-16 18 A6 CPU-131,4-17 17 GND CPU-131,4-18 18 A7 CPU-131,4-19 19 GND CPU-131,4-20 20 D0 CPU-131,4-21 21 GND CPU-131,4-22 22 D1 CPU-131,4-23 23 GND CPU-131,4-23 23 GND CPU-131,4-24 24 D2 CPU-131,4-25 25 GND CPU-131,4-26 26 D3 CPU-131,4-29 29 GND CPU-131,4-30 30 D5 CPU-131,4-31 31 GND CPU-131,4-33 33 GND<	B SIED 2A 26 KY-239A,1-25 B SIED 2A 26 KY-239A,1-26 B SIED 3A 27 KY-239A,1-27 B SIED 3A 27 KY-239A,1-27 B SIED 3A 28 KY-239A,1-29 B SIED 0B 30 KY-239A,1-30 B SIED 5B 31 KY-239A,1-31 B SIED 5B 32 KY-239A,1-32 B SIED 6B 34 KY-239A,1-33 B SIED 6B 34 KY-239A,1-33 B SIED 7B 35 KY-239A,1-35 B SIED 7B 36 KY-239A,1-36 B SIED 7B 37 KY-239A,1-39 B SW 1 40 KY-239A,1-30 B SW 2 42 KY-239A,1-40 B IED 2 41 KY-239A,1-41 B SW 2 42 KY-239A,1-42 B IED 3 43 KY-239A,1-44 B IED 3 43 KY-239A,1-44 B IED 3 44 KY-239A,1-45 B SW 3 44 KY-239A,1-45 B SW 4 46 KY-239A,1-46 B IED 5 47 KY-239A,1-47 B SW 5 48 KY-239A,1-47 B SW 5 48 KY-239A,1-47 B SW 5 48 KY-239A,1-47 B SW 5 5 KY-239A,1-50 B SW 5 5 KY-239A,1-50 C SIED 0 55 KY-239A,1-51 C SIED 0 56 KY-239A,1-56 C SIED 0 56 KY-239A,1-56 C SIED 0 56 KY-239A,1-56 C SIED 1 57 KY-239A,1-57 C SIED 1 58 KY-239A,1-58 C SIED 1 57 KY-239A,1-59 C SIED 1 57 KY-239A,1-59 C SIED 2 60 KY-239A,1-60 C SIED 3 61 KY-239A,1-60 C SIED 3 62 KY-239A,1-60 C SIED 3 61 KY-239A,1-60 C SIED 3 62 KY-239A,1-60 C SIED 3 64 KY-239A,1-60 C SIED 3 66 KY-239A,1-60 C SIED 3 67 KY-239A,1-60 C SIED 3 68 KY-239A,1-60 C SIED 4 64 KY-239A,1-60 C SIED 5 66 KY-239A,1-60 C SIED 6 67 KY-239A,1-60 C SIED 7 70 KY-239A,1-70 C IED 1 72 KY-239A,1-71 C IED 1 72 KY-239A,1-71 C IED 1 72 KY-239A,1-72 C IED 2 73 KY-239A,1-73 C IED 5 76 KY-239A,1-70 C IED 5 76 KY-239A,1-70 C IED 6 77 KY-239A,1-70 C IED 7 78 KY-239A,1-70 C IED 6 77 KY-239A,1-70 C IED 7 78 KY-239A,1-70 C IED 8 77 KY-239A,1-70 C IED 7 78 KY-239A,1-70	A SLED 3B 20 A SLED 4B 21 A SLED 6B 22 A SLED 6B 23 A SLED 6B 24 A SLED 7B 25 A SLED 7B 26 A LED 0 27 A SW 0 28 A LED 1 29 A SW 1 30 A LED 2 31 A SW 2 32 A LED 3 33 A SW 3 34 A LED 4 35 A SW 3 34 A LED 5 37 A SW 5 38 A LED 6 39 A SW 6 40 A LED 7 41 A SW 6 40 A LED 7 41 A SW 7 42 A SSW 0 43 A SSW 1 44 A SSW 1 44 A SSW 3 45 A SSW 1 44 A SSW 6 47 A SSW 7 48 N.C 49 N.C 50	19 A SLED 3B 20 A SLED 4B 21 A SLED 4B 22 A SLED 4B 23 A SLED 6B 24 A SLED 7B 26 A SLED 7B 27 A LED 0 28 A SW 0 29 A LED 1 30 A SW 1 31 A LED 2 32 A SW 2 33 A LED 3 34 A SW 3 35 A LED 4 36 A SW 4 37 A LED 5 38 A SW 5 39 A LED 6 40 A SW 6 41 A LED 7 42 A SW 7 43 A SSW 0 44 A SSW 1 45 A SSW 4 47 A SSW 6 48 A SSW 7 49 N.C 50 N.C	IF-403A,2-23
		FROM KY-239B CN2	I F - 4 0 3 B(M/ E2) (SAME AS (IF-403 A (M/E1))	KY-238 (SAME AS (KY-238)	FROM IF-403B CN2
TT -				BOARD TO BOARD CONNECTOR D TO BOARD CONNECTOR	

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FRAME(2/3)

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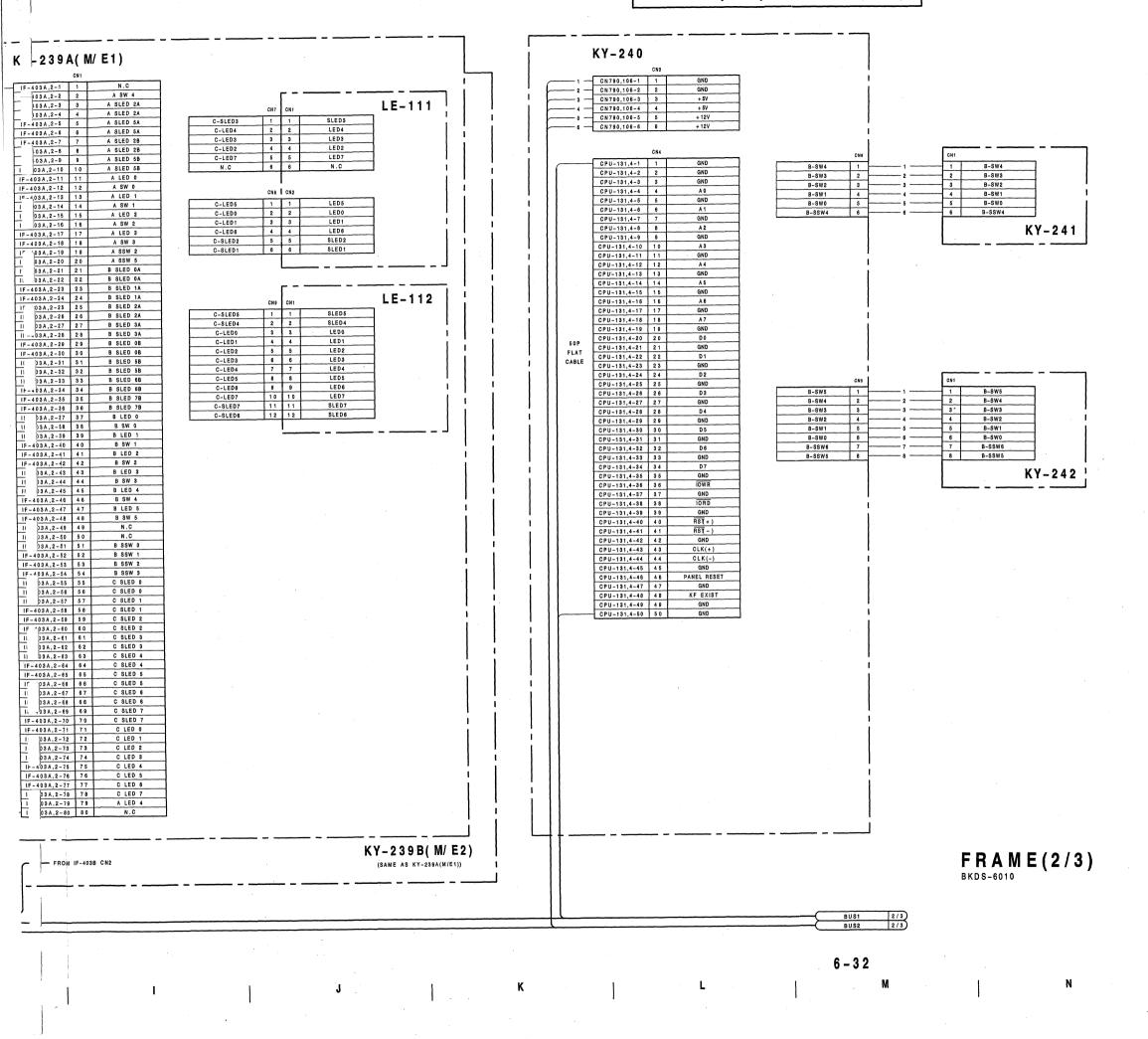
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TF-404 CN2	CNI GND CND CND CND CND CND CND CND	1	A-SLED 0	GND GND GND GND GND GND GND GND	80P BOARD TO BOARD CONNECTOR	0N1 1	IF-404,8-1
			NC 71 KY-243,1-71 NC 72 KY-243,1-72 NC 73 KY-243,1-73 NC 74 KY-243,1-74 NC 75 KY-243,1-74 NC 75 KY-243,1-75 NC 76 KY-243,1-77 NC 77 KY-243,1-77 NC 78 KY-243,1-78 NC 79 KY-243,1-79 NC 80 KY-243,1-80	D-LED 4 71 D-SW 4 72 D-LED 5 73 D-SW 5 74 D-LED 6 75 D-SW 6 76 D-LED 7 77 NC 78 NC 78 NC 80		71 D-LED 4 72 D-SW 4 73 D-LED 5 74 D-SW 6 75 D-LED 6 76 D-SW 6 77 D-LED 7 78 NC 79 NC 80 NC	1F-404,8 1F-404,8 1F-404,8 1F-404,8 1F-404,8 1F-404,8 1F-404,8 1F-404,8 1F-404,8 1F-404,8
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FRAME(3/3)

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KY-243	KY-244	KY-245	
CN2 GND GNT G	ON1 IF-404,6-1 1 IF-404,6-2 2 IF-404,6-3 .3 KF EXIST IF-404,6-4 4 IF-404,6-5 5 B-SLED 0 IF-404,6-6 6 B-SLED 0 IF-404,6-7 7 B-SLED 1	IF - 40 4, 1 - 1 1 GND IF - 40 4, 1 - 2 2 GND IF - 40 4, 1 - 3 3 GND IF - 40 4, 1 - 3 4 GND IF - 40 4, 1 - 5 5 +5V IF - 40 4, 1 - 6 6 +5V IF - 40 4, 1 - 7 7 +5V	CNS +5V 1 RV1-B 2 RV1-A 3 GND 4 TO RV1
F-404,8-7 7	IF-404,6-8	IF-404,1-8	CN4 +5V 1 RV2-B 2 RV2-A 3 GND 4 TO RV2
F-404,8-18 18	IF-404,8-16 16	IF-404,1-16 16 RV3-B IF-404,1-17 17 RV4-A IF-404,1-18 18 RV4-B IF-404,1-19 19 C-SLED 1 IF-404,1-20 20 C-SLED 1 IF-404,1-21 21 C-SLED 2 IF-404,1-22 22 C-SLED 2 IF-404,1-23 23 C-SLED 3	CNS +5V 1 RV3-B 2 RV3-A 3 GND 4 TO RV3
-SLED 0 IF-404,8-25 25	FF-404,6-24 24 B-SSW 3 F-404,6-25 25 B-LED 0	IF-404,1-24	CN8 +5V 1 RV4-B 2 RV4-A 3 GND 4 TO RV4
-SLE IF-404,8-32 32 A-SW 4 IF-404,8-33 33 A-LED 5 IF-404,8-34 34 A-SW 5 IF-404,8-35 35 A-LED 6 A-SW 7 A-BED	IF -404,6-32 32 B-SW 3 IF -404,6-34 34 B-SW 4 IF -404,6-34 34 B-SW 4 IF -404,6-36 35 B-LED 5 IF -404,6-36 36 B-SW 5 IF -404,6-37 37 B-LED 6 IF -404,6-38 38 B-SW 6 IF -404,6-38 38 B-SW 6 IF -404,6-38 39 B-LED 7	F-404,1-34 34 C-SSW 3 F-404,1-34 34 C-SSW 4 F-404,1-35 35 C-LED 0 F-404,1-35 35 C-LED 0 F-404,1-36 36 C-SW 0 F-404,1-38 36 C-SW 1 F-404,1-38 36 C-SW 1 F-404,1-38 36 C-SW 1 F-404,1-39 39 C-LED 2 F-404,1-39 39 C-LED 2 F-404,1-40 40 C-SW 2	
F-404,8-40	IF-404,6-41 41 D-SLED 4 IF-404,6-42 42 D-SLED 4 IF-404,6-43 43 D-SLED 5 IF-404,6-44 44 D-SLED 5 IF-404,6-45 45 D-SLED 6 IF-404,6-46 48 D-SLED 6 IF-404,6-47 47 D-SLED 7 IF-404,6-48 48 D-SLED 7	IF-404,1-41	
F-404,8-49 49 B-LED 2 A0 3 3 A0	IF-404,6-49	IF-404,1-49	
SSW 0 1F-404,8-59 59 NC	IF-404.8-58 58 NC IF-404.8-59 59 NC IF-404.8-50 80 NC	1F-404,1-58 58 NC 1F-404,1-59 59 NC 1F-404,1-60 60 NC	CN2 +5V 1 POS-X 2 POS-Y 3 GND 4 KY-246
IF-404,8-66 66 NC	ON2 ON1 O-SLED 5 1 1 SLED 5 O-SLED 4 2 2 SLED 4 O-LED 0 3 3 LED 0 O-LED 1 4 4 LED 1 O-LED 2 5 5 LED 2		
W 4 ED IF-404,8-72 72 NC IF-404,8-73 73 NC IF-404,8-74 74 NC IF-404,8-75 75 NC IF-404,8-76 76 NC IF-404,8-77 77 NC IF-404,8-78 78 NC IF-404,8-78 78 NC IF-404,8-79 79 NC IF-404,8-79 79 NC IF-404,8-79 79 NC IF-404,8-80 80 NC	D-LED 8 6 8 LED 3 D-LED 4 7 7 LED 4 D-LED 5 8 8 LED 5 D-LED 6 9 9 LED 6 D-LED 7 10 10 LED 7 O-SLED 7 11 11 SLED 7 D-SLED 6 12 12 SLED 8		
60P FLAT CABLE 60P FLAT CABLE			FRAME(3/3)

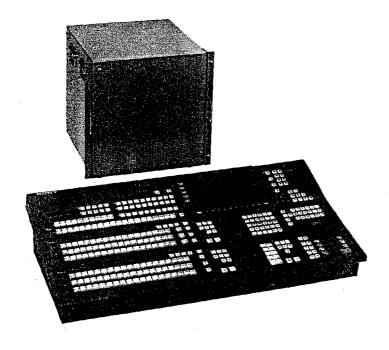
SONY

DIGITAL VIDEO SWITCHER

DVS-6000/6000C

SWITCHER CONTROL PANEL

BKDS-6010



BKDS-6050 BKDS-6060 BKDS-6061 BKDS-6062 BKDS-6063 BKDS-6064 BKDS-6070 BKDS-6071

BKDS-6072 BKDS-6090 BKDS-8022

INSTALLATION AND MAINTENANCE MANUAL Part 2
1st Edition
Serial No. 10001 and Higher

For customers in the U.S.A.

WARNING

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC rules.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

For the customers in the U.S.A.

Changing the voltage selector may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in radio interference regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A, pour bruits radioélectriques. Tel que spécifiér dans le reglement sur le brouillage radioélectrique.

Bescheinigung des Herstellers

Hiermit wird bescheinigt, daß die Digital-Video-Schalteinheit DVS-6000C in Übereinstimmung mit den Bestimmungen der BMPT-Amtsblatt Vfg 243/1991 und Vfg 46/1992 funkenstört ist. Der vorschriftsmäßige Betrieb mancher Geräte (z.B.Meßsender) kann allerdings gewissen Einschränkungen unterliegen. Beachten Sie deshalb die Hinweise in der Bedienungsanleitung. Dem Bundesamt für Zulassungen in der Telekommunikation wurde das inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestmmungen eingeräumt.

Sony Deutschland GmbH Hugo Eckener Str 20 D-5000 Köin 30

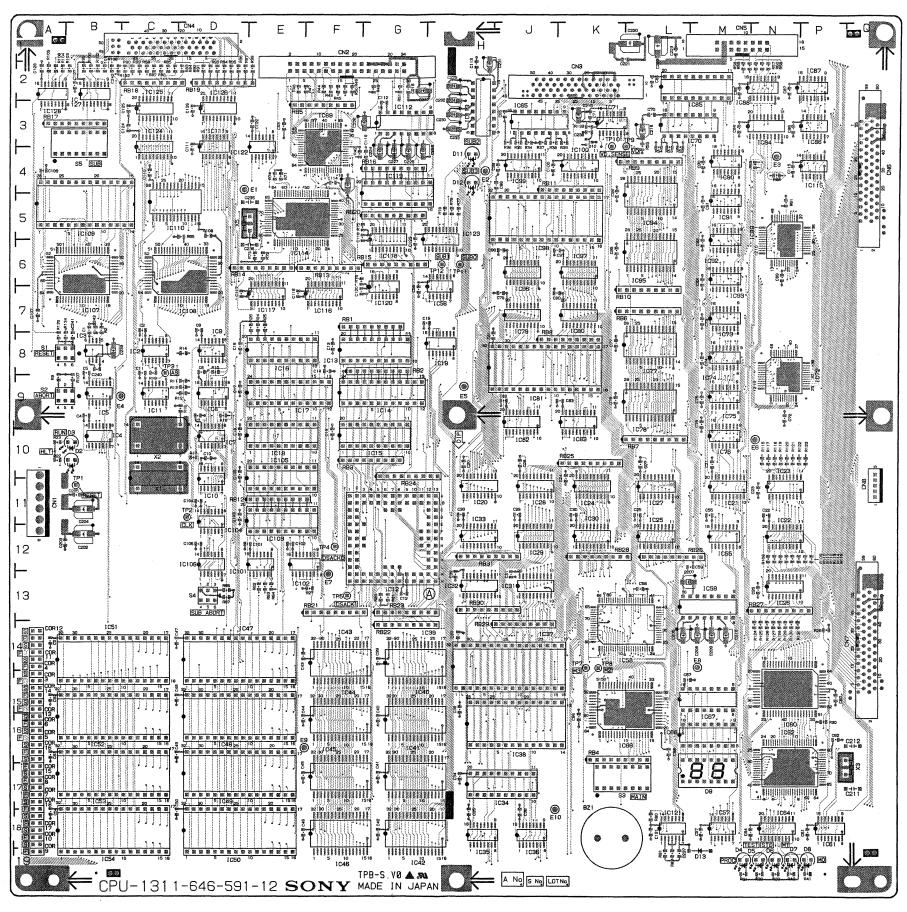
Hinweis

Gemäß der Amtsblätter des BMPT Nm. 61/1991 und 6/ 1992 wird der Betreiber darauf aufmerksam gemacht, daß die von ihm mit diesem Gerät zusammengeste IIte Anlage auch den technischen Bestimmungen dieser Amtsblätter genügen muß.

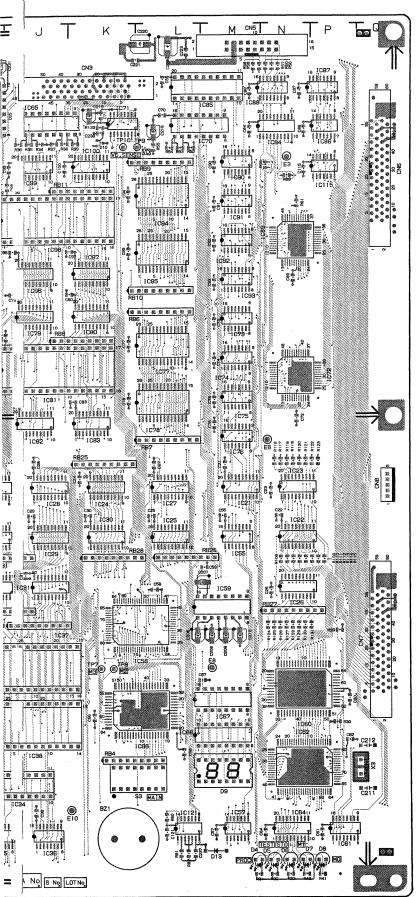
SECTION 7 BOARD LAYOUTS

	Board	Function	age
С	CN-789	Connector Board ·······7	
	CN-790	Connector Board ······7	
	CPU-131	System Control Board	- 2
1	IF-403	Switch Interface Board(For KY-239)·····7	
	IF-404	Switch Interface Board(For KY-243)······7	- 6
	IF-418	Interface Board ·······7	- 9
K	KY-238	Switch Board7	- 10
	KY-239	Switch Board ······7	- 12
	K Y - 2 4 0	Switch Board ······7	
	KY-241	Switch Board ······7	- 16
	KY-242	Switch Board ······7	- 17
	KY-243	Switch Board ······7	- 18
	K Y - 2 4 4	Switch Board ······7	- 20
	K Y - 2 4 5	Switch Board ······7	
	KY-246	Switch Board7	- 2 4
L	LE-111	LED Board ······7	- 25
	LE-112	LED Board ·······7	- 25
	LE-113	LED Board ······7	- 25
	LE-114	LED Board ······7	- 26
	LE-115	LED Board ····································	- 26

C P U - 13	1 (1 – 6 4 6 -	- 5 9 1 – 1 2)			
B Z 1 C N I 1 2 C N I 1 3 C N I 1 4 C N I 1 5 C N I 1 6 C N I 1 7 C N I 1 8 C N I 3 7 C N I 3 8 C N I 4 7	K-18 G-13 F-8 G-9 G-10 E-8 E-9 D-17 J-17 J-14 J-16 E-14	IC 2 6 IC 2 7 IC 2 8 IC 2 9 IC 3 0 IC 3 1 IC 3 2 IC 3 3 IC 3 4 IC 3 5 IC 3 6 IC 3 7 IC 3 8	N-13 L-11 J-11 J-12 K-12 J-13 H-13 H-12 J-17 H-19 J-19 J-14 J-16	IC 1 1 2 IC 1 1 3 IC 1 1 4 IC 1 1 5 IC 1 1 6 IC 1 1 7 IC 1 1 8 IC 1 1 9 IC 1 2 0 IC 1 2 1 IC 1 2 2 IC 1 2 3 IC 1 2 4	G-3 H-3 E-6 P-4 F-7 G-6 G-4 G-7 L-18 D-4 H-5 C-3
C N I 4 8 C N I 4 9 C N I 5 0 C N I 5 1 C N I 5 2 C N I 5 3 C N I 5 4 C N I 8 1 C N I 8 5 C N I 9 8 C N I 1 0 3 C N I 1 0 9 C N I 1 1 1 9	D-16 D-17 D-19 B-14 B-16 B-17 B-19 J-9 M-3 J-6 E-12 E-10 B-5 G-4	1 C 3 9 1 C 4 0 1 C 4 1 1 C 4 2 1 C 4 3 1 C 4 4 1 C 4 5 1 C 4 6 1 C 4 7 1 C 4 8 1 C 5 0 1 C 5 1 1 C 5 3	H-14 G-15 G-16 G-19 F-14 F-15 F-16 F-19 E-14 D-16 D-17 D-19 B-14 B-16 B-17	IC125 IC126 IC128 RB1 RB2 RB3 RB4 RB5 RB6 RB7 RB8 RB9 RB10 RB11	C-2 D-2 A-3 F-7 G-8 F-10 K-16 E-3 L-7 L-10 J-8 L-7 J-4
CN1 CN2 CN3 CN4 CN5 CN6 CN7	A - 1 1 F - 1 K - 2 D - 1 M - 1 Q - 4 A - 1 4 Q - 1 1	IC 5 3 IC 5 4 IC 5 5 IC 5 6 IC 5 7 IC 5 8 IC 5 9 IC 6 0 IC 6 1 IC 6 2	B-17 B-19 M-12 H-7 M-18 L-14 M-13 N-16 P-19 N-16	RB12 RB13 RB14 RB15 RB16 RB17 RB18 RB19 RB20	D-11 F-6 D-6 G-6 G-4 A-3 C-2 D-2 F-5
D 2 D 3 D 4 D 5 D 6 D 7 D 8 D 9 D 1 0 D 1 1 D 1 2 D 1 3	B-10 B-10 M-19 N-19 N-19 N-19 P-19 M-17 K-3 H-4 H-4 M-19	1 C 6 4 1 C 6 5 1 C 6 6 1 C 6 7 1 C 6 8 1 C 6 9 1 C 7 0 1 C 7 1 1 C 7 2 1 C 7 3 1 C 7 4 1 C 7 5	M - 18 J - 3 L - 16 M - 16 L - 16 F - 3 M - 3 K - 3 P - 8 M - 9 M - 9	R B 2 1 R B 2 2 R B 2 3 R B 2 4 R B 2 5 R B 2 6 R B 2 7 R B 2 8 R B 2 9 R B 3 0 R B 3 1	F - 13 G - 14 G - 13 G - 10 K - 10 M - 12 N - 13 K - 12 H - 14
E 1 E 2 E 3 E 4 E 5 E 6 E 7 E 8 E 9 E 10	E-4 H-4 N-4 C-9 H-9 N-10 F-13 M-14 F-16 K-18	1 C 7 6 1 C 7 7 1 C 7 8 1 C 7 9 1 C 8 0 1 C 8 1 1 C 8 2 1 C 8 3 1 C 8 4 1 C 8 5 1 C 8 6	M-10 L-8 L-9 J-7 K-7 J-9 J-10 K-10 N-3 M-3 P-3	S 1 S 2 S 3 S 4 S 5 T P 1 T P 2 T P 3 T P 4 T P 5	A - 8 A - 9 L - 1 7 D - 1 3 B - 4 B - 1 1 C - 8 F - 1 2 F - 1 3
IC 2 IC 3 IC 4 IC 5 IC 6 IC 7 IC 8 IC 9 IC 11 IC 12 IC 13 IC 15 IC 16 IC 17 IC 18 IC 19 IC 20 IC 21 IC 22 IC 23 IC 24 IC 25	C - 8 B - 8 B - 10 B - 9 B - 11 D - 10 D - 9 D - 7. D - 11 C - 9 G - 13 F - 8 E - 9 G - 10 E - 8 E - 9 H - 11 N - 11 N - 11 N - 11 K - 11 L - 12	IC87 IC88 IC89 IC90 IC91 IC92 IC93 IC94 IC95 IC96 IC97 IC98 IC100 IC101 IC102 IC103 IC104 IC105 IC106 IC107 IC108 IC109 IC1101	P-2 M-3 N-5 M-4 M-5 M-6 J-6 J-6 J-6 J-6 J-13 E-13 E-13 E-12 E-10 D-12 E-10 D-12 C-3 D-7 B-5 C-5	TP7 TP8 TP9 TP10 TP11 TP12 X1 X2 X3 X5	K - 14 K - 14 K - 14 L - 3 H - 6 H - 6 C - 11 C - 10 Q - 17 D - 5

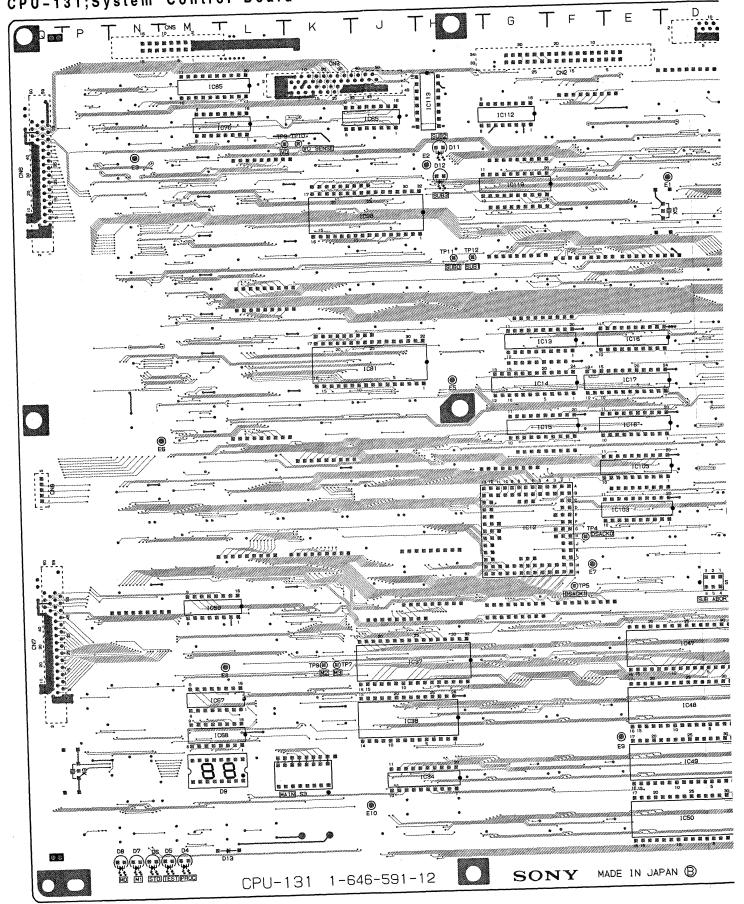


CPU-131-A SIDE-



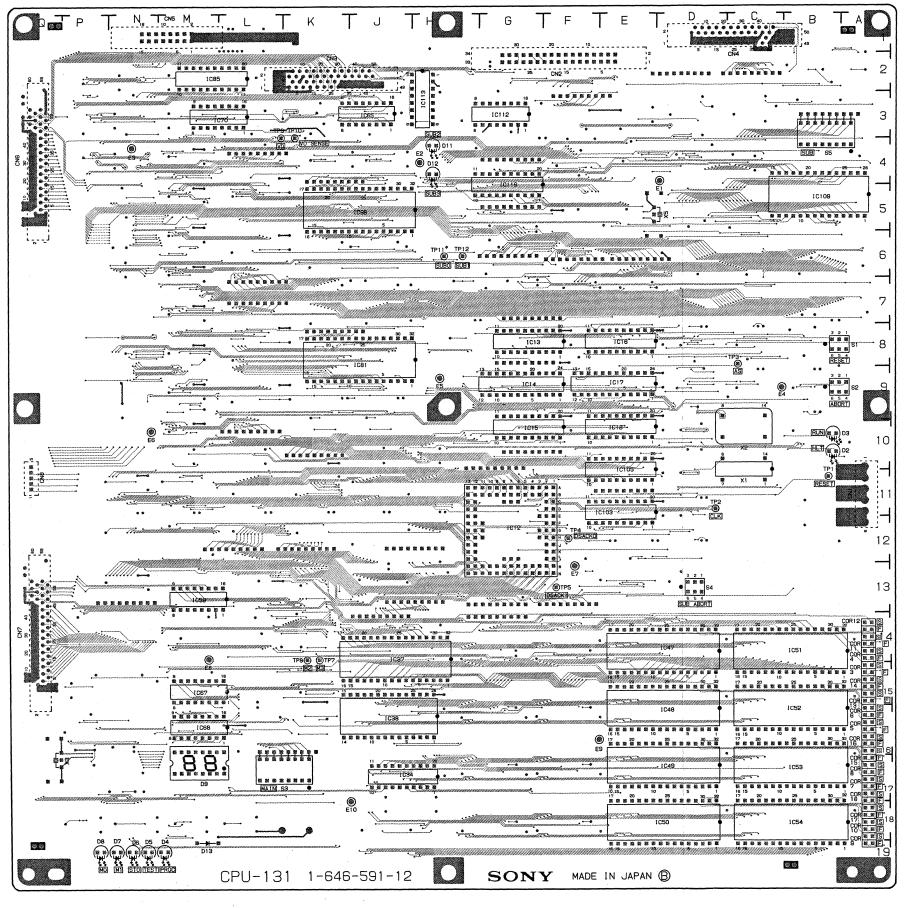
CPU-131-A SIDE-1-646-591-12
BKDS-6010

CPU-131; System Control Board



CPU-131(1-646-591-12)

CPU-131; System Control Board



B Z 1 IC28 IC29 IC115 P-4 CNI12 F - 8 G - 9 CNI13 IC30 K-12 IC117 F-7 CNI14 IC31 J - 13 1 C 3 2 IC119 G-4 IC120 G-7 CNI15 CN116 E-8 I C 3 4 I C 3 5 J – 17 H – 19 CNI17 IC121 L-18 IC122 CNI18 E-10 IC36 C - 3 CN137 J-14 J-14 IC124 J-16 H-14 IC38 IC125 IC39 IC40 C N I 4 7 F-14 IC126 IC128 CN148 CN149 D-17 IC41 G-16 CN150 IC42 1 C 4 3 1 C 4 4 CNI51 RB2 CN152 B-16 C N 153 IC 4 5 RB4 RB5 CN154 B-19 E - 3 IC 4 7 CNI81 CN185 M-3 RB7 L-10 D-16 IC49 IC50 CN1103 E-12 D-19 RB9 L-4 CN1105 E-10 CN1109 B-5 IC52 B-16 R B 1 1 IC53 CN1119 G-4 B-19 M-12 IC54 R B 1 3 F - 6 1C55 CN2 CN3 1C56 RR15 G - 6 G - 4 IC 5 7 RB16 IC58 IC59 L-14 M-13 CN4 **RB17** A - 3 C - 2 CN5 M - 1 RB18 IC60 IC61 N-16 P-19 RB19 CN7 A-14 RB20 IC62 M-18 RB22 1C65 1C66 L-16 D 3 B-10 RB24 G-10 D 5 N-19 1 C 6 8 L-16 RB26 M - 12 IC69 I C 7 0 I C 7 1 M - 3 K - 3 D 7 D 8 N-19 **RB28** K-12 H-14 D 9 D 1 0 1072 1073 RB30 RB31 K – 3 IC74 S 1 1 C 7 5 A - 8 D12 H - 4 IC76 S 2 L - 8 S 3 L-17 S 4 S 5 1079 E 2 B - 4 E 3 IC80 LC 8 1 J - 9 B - 11 I C 8 2 I C 8 3 I C 8 4 T P 3 T P 4 N - 10C - 8 F-13 E 7 IC85 TP5 TP7 F-13 F-16 IC86 K-14 E 9 T P 8 M - 3 TP9 1 C 8 8 L - 3 1 C 2 TP10 IC3 1C90 TP11 H-6 I C 4 TP12 1 C 5 1 C 9 2 IC7 IC94 L - 5 X 2 X 3 C-10 Q-17 IC95 L - 6 IC96 IC97 J - 7 K - 6 D - 5 IC10 IC98 IC12 IC99 J - 4 G-13 1C14 G - 9 IC101 D-13 1C16 IC103 IC18 IC19 IC105 IC107 IC108 IC21 N - 10 IC110 IC23 C - 5 LC 25 1-12 IC112

CPU-131-B SIDE-

CPU-131(1-646-591-11)

CN112 G-13

G - 10

E-10

CNI13

CNI15

CNI16

CNI18

CN147

CN148

CNI50

CNI51

C N 153

C N 181

CN198

CN3

CN6

D 10

D11

I C 3

I C 5

I C 8 I C 9

IC13

IC 15

IC 18 IC 19

IC 2 0 IC 2 1

I C 2 3

CN185 M-3

CNI103 E-12

CN1109 B-5

CN1119 G-4

K - 2

Q - 4

B - 10

B - 10

N-19

P-19

F-13

F-16

C-11

B-11

M – 11

N – 1 0

K – 11

IC26

IC27

IC28

IC 29

IC31

1 C 3 2

IC34

IC39

I C 4 1 I₄C 4 2

I C 4 4 I C 4 5

IC46

1C47

IC51

IC54

IC56

IC57

IC59

I C 6 1 I C 6 2

IC65

IC66

IC68

I C 7 5

IC78

IC80

IC83

I C 8 5 I C 8 6

IC88

IC89

I C 9 0 I C 9 1

IC93

IC94

IC95 IC96 IC97 IC98

IC101

IC103

IC105 E-10

IC106 D-12

IC108 D-7

IC109 B-5

IC111 D-3

M – 3 P – 3

L-11

1-12

K - 12

J – 13 H – 13

J-17

J-14

H-14

G-15

G-19

D - 19

B-16

B-19

M - 12

M - 18

M - 13

IC114 E-6

E - 7

F-10

E - 3

L - 7

J – 8

L – 7 J – 4

F - 6

F - 5

A - 9

D – 13 B – 4

B-11

D - 11

C-8 F-12

F - 13

K – 1 4 K – 1 4

L - 3 K - 3

H - 6

C-10

Q - 17

L-10.

IC116

IC117

IC118

IC119

IC121

IC122

IC124

IC125

IC126

IC127

RB3

RB5

RB8

R R 1 0

RB12

RB13

RB15

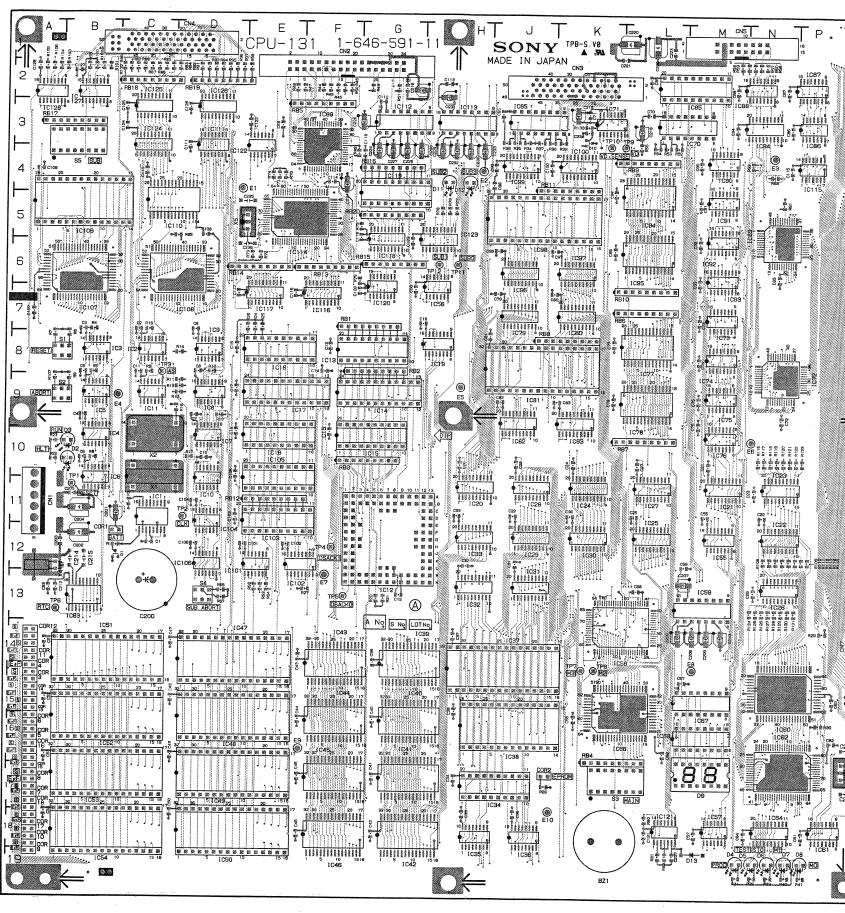
RB17

RB18

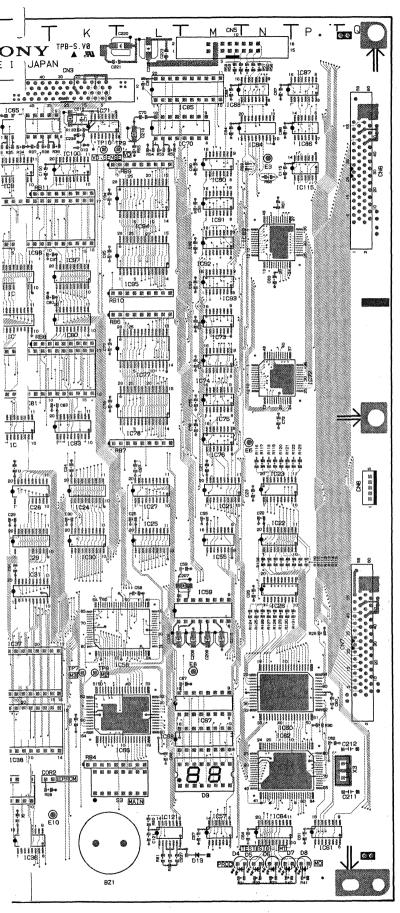
RB20

TP11 TP12

X 3 X 5

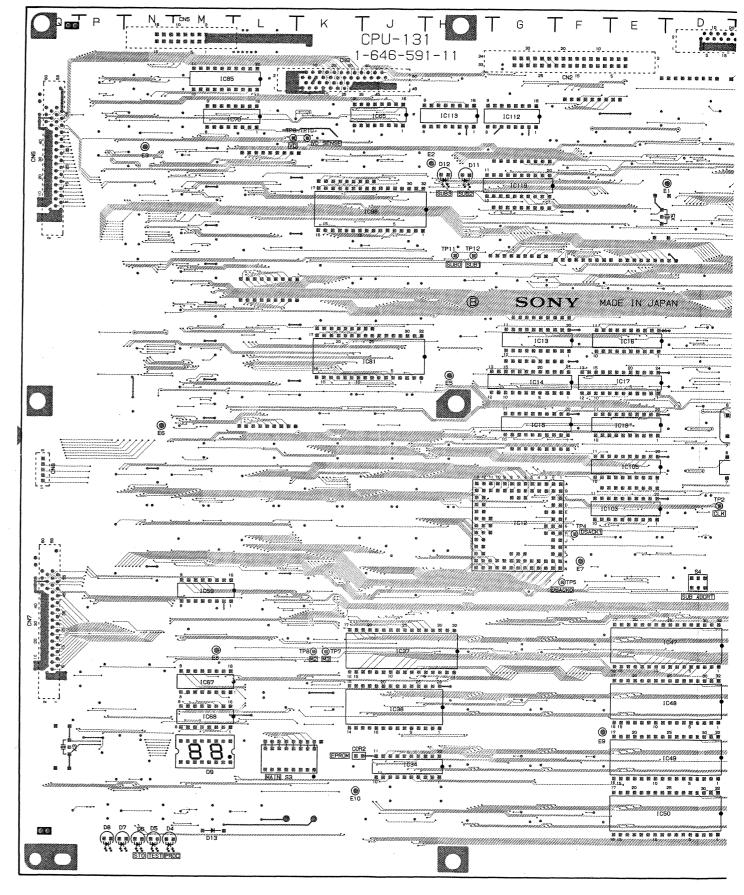


CPU-131-A SIDE-



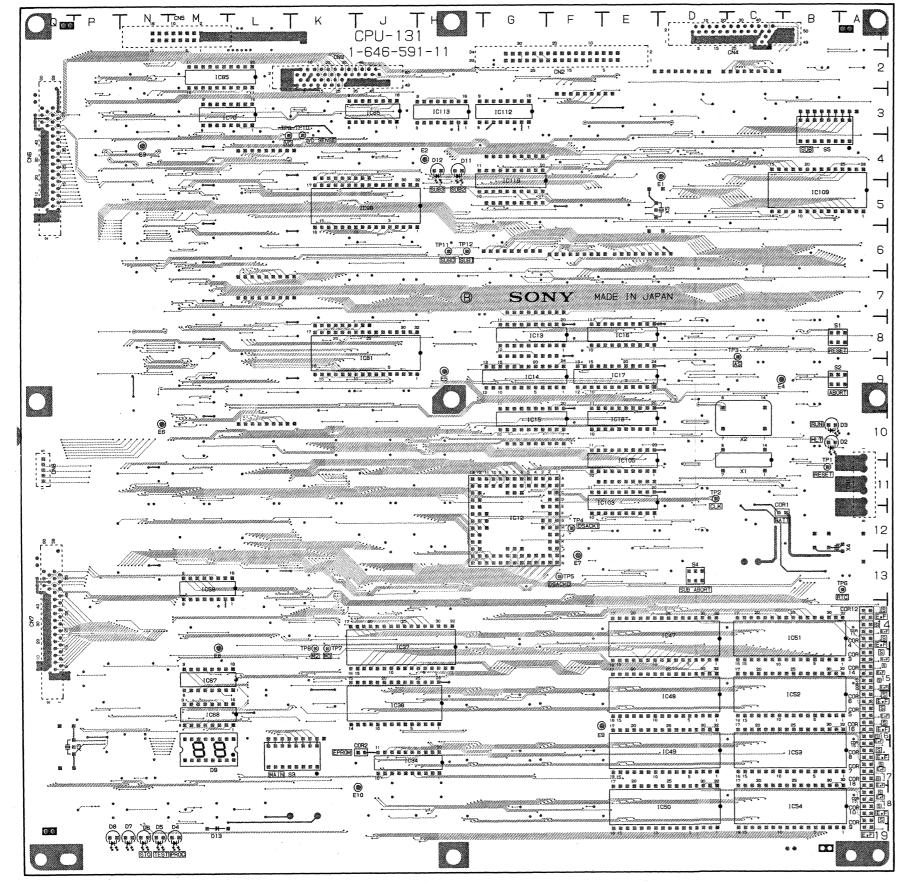
CPU-131 -A SIDE-

CPU-131; System Control Board



CPU-131(1-646-591-11)

CPU-131; System Control Board



CPU-131 -B SIDE-

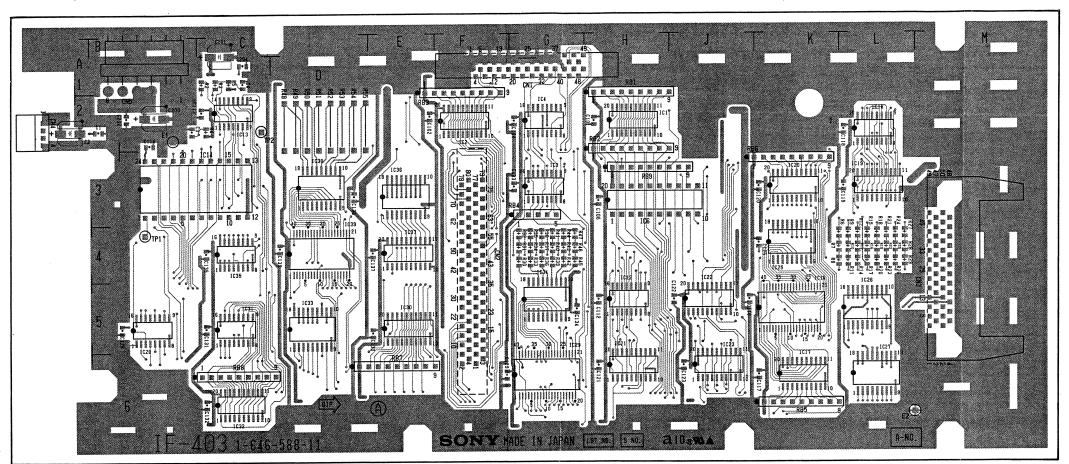
BZ1 K-19 IC26 IC113 H-3 IC27 IC114 E-6 IC115 P-4 CNI12 F - 7 E - 7 CNI13 CN114 G-9 IC30 K-12 IC 117 J-13 H-13 H-12 IC118 G-6
IC119 G-4
IC120 G-7 G-10 E-8 IC31 CNI15 CNI16 CNI17 1 C 3 2 E - 9 IC34 IC35 IC36 IC37 J ~ 17 H ~ 19 CN118 CN134 IC121 L-18 IC122 D-4 E - 10 J-17 J-14 H - 5 C - 3 C N 1 3 7 J – 19 J - 1 4 J - 1 6 H - 1 4 G - 1 5 J – 1 6 E – 1 4 C N 1 3 8 IC124 IC38 IC39 IC40 CN147 IC 126 CN148 D-16 CN149 IC 4 0 IC 4 1 IC 4 2 IC 4 3 IC 4 4 IC 4 5 IC 4 6 IC 4 7 C N I 5 0 C N I 5 1 D - 19 B - 14 G-16 IC128 A-3 RB1 RB2 C N 1 5 2 B - 16 CN153 B-17 C N I 5 4 B – 19 J – 9 CN181 K - 16 CN185 M-3 IC 48 IC 49 IC 50 IC 51 CN198 J-7 D-16 RB7 RB8 CN1105 E-10 D-19 J - 8 CN1109 B-5 1 C 5 2 1 C 5 3 CN1119 G-4 RB10 1 C 5 4 1 C 5 5 B – 1 9 M – 1 2 RB12 CN2 1C 5 6 1C 5 7 1C 5 8 CN3 CN4 RB14 RB15 K - 2 G - 6 G - 4 A - 3 D - 1 CN6 Q - 4 IC59 M - 13IC 6 0 IC 6 1 IC 6 2 RB18 RB19 P-18 D - 2 CN8 Q-11 D 2 B-10 1 C 6 4 1 C 6 5 M - 18 D 3 B - 10 1C 6 6 1C 6 7 D 4 D 5 M-19 S 2 S 3 A - 9 N - 19 I C 6 8 L-16 F-3 D 6 D 7 N - 19 S 4 S 5 D - 13 N-19 IC70 B-11 D 9 D 1 0 M - 17 IC71 K - 3 1 C 7 2 1 C 7 3 1 C 7 4 TP2 TP3 H – 4 H – 4 M – 19 C - 8 D 1 1 M - 9 1 C 7 5 1 C 7 6 D13 E - 4 1C77 L - 8 L - 9 K-14 N - 4 C - 9 1 C 7 9 1 C 8 0 E 3 TP10 K - 3 E 4 1C81-1C82 J - 9 TP12 H-6 J - 1 0 K - 1 0 N - 3 N - 10 1 C 8 3 1 C 8 4 C-11 C-10 M-14 E 8 Q - 17 D - 5 E 10 K-18 IC86 P-3 1C87 1C88 C-11 1 C 1 M - 2 IC2 IC3 IC4 IC5 IC6 B - 8 B - 10 IC90 IC91 B - 9 B - 11 1C92 M – 6 M – 7 I C 7 I C 8 I C 9 I C 9 4 I C 9 5 D – 9 D – 7 IC10 D-11 C-9 G-13 F-8 1C97 IC12 IC99 IC14 IC15 G - 9 G - 10 IC101 D-13 IC102 E-13 IC16 IC103 IC17 IC104 D-12 IC19 IC106 IC21 IC22 M-11 IC108 D-7 IC109 B-5 1 C 2 3 IC110 C-5 IC111 D-3 IC112 G-3

(For KY-239) IF-403; Switch Interface Board

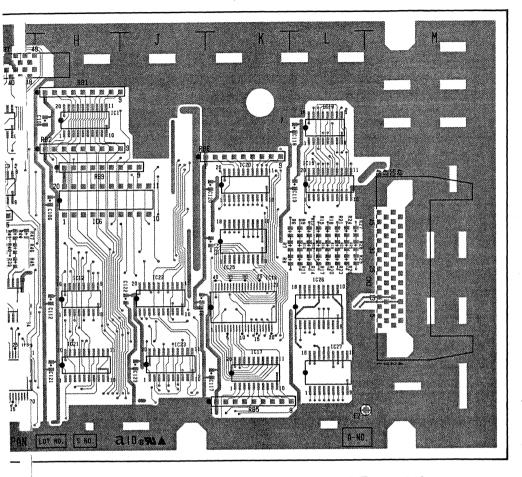
IF-403(1-646-588-11) CN1 CN2 CN3 CN4 CN5 G – 1 * F – 4 M – 5 B - 2 L - 6 IC 1
IC 2
IC 3
IC 4
IC 6
IC 1 2
IC 13
IC 14
IC 16
IC 17
IC 18
IC 19
IC 20
IC 30
IC 30 RB1 RB2 RB3 RB4 RB5 RB6 RB7 RB8 RB9 TP1 TP2

C-2

*;B SIDE

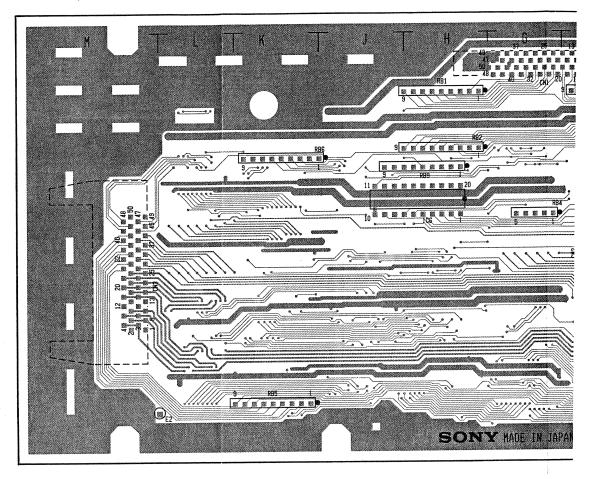


IF - 403 - A SIDE-1-646-588-11 BKDS-601.0

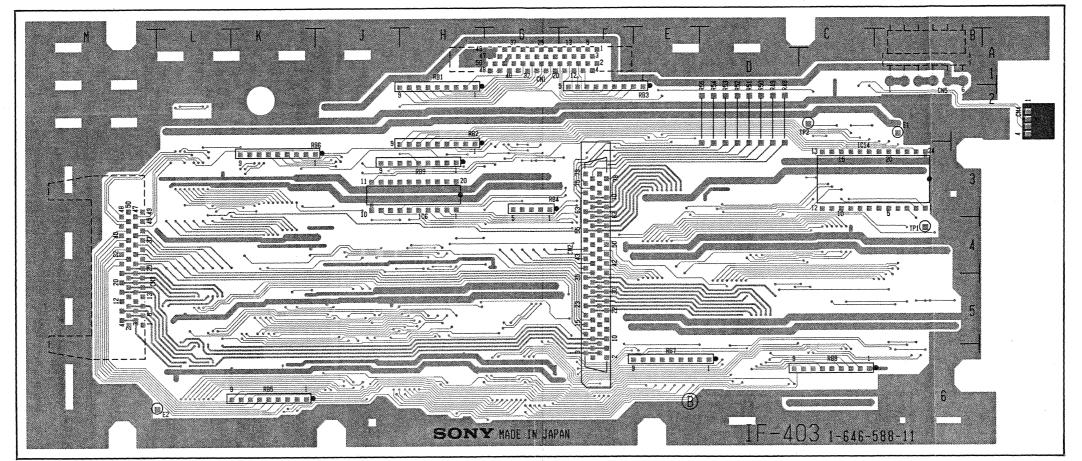


IF-403-A SIDE-

(FOR KY-239) IF-403; Switch Interface Board



(FOR KY-239) IF-403; Switch Interface Board

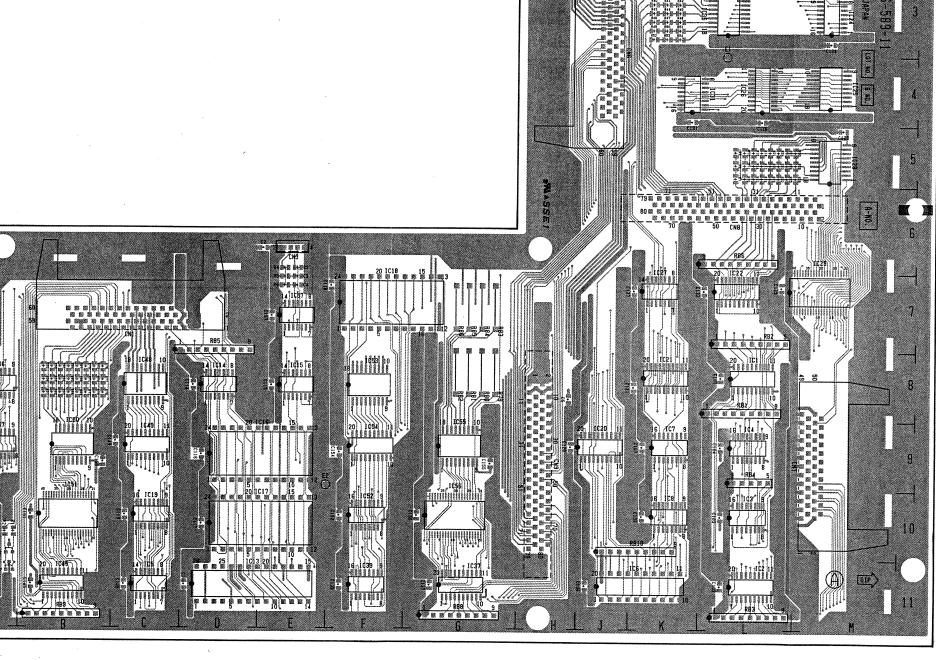


IF-403-B SIDE-1-646-588-11 BKDS-6010

*;B SIDE

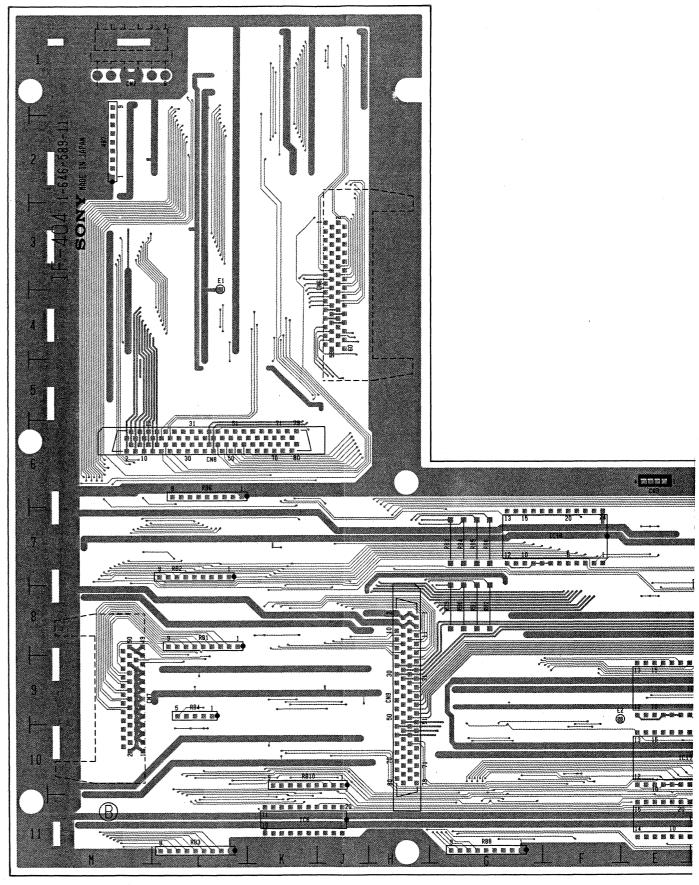
CN1	I F - 4 0	4 (1 - 6 4 6 -	589-11)	
D2	C N 2 C N 3 C N 6 C N 7 C N 8 C N 9	M-1 E-6 J-3 M-9 * L-6 * H-9	IC51 IC52 IC53 IC54 IC55 IC56	B - 9 F - 1 0 F - 8 F - 9 G - 9 G - 9
C 1	D 2 E 1	A - 1 1 L - 3	R B 2 R B 3 R B 4	L – 7 L – 1 1 L – 9
	C 2 C 3 C 4 C 5 C 6 C 7 C 8 C 13 C 14 C 15 C 16 C 17 C 18 C 18	L-11 L-19 C-11 K-11 K-9 K-11 D-8 E-9 E-10 F-6 C-10 J-9 K-8 L-6 M-4 K-5 M-4 K-6 M-2 L-4 K-1 J-2 K-3 L-1 H-2 K-1 H-1 H-1 H-1 H-1 H-1 H-1 H-1 H-1 H-1 H	RB6 RB7 RB8 RB9 RB10	L - 6 M - 2 G - 1 1 B - 1 1 K - 1 0

(For KY-243) IF-404; Switch Interface Board

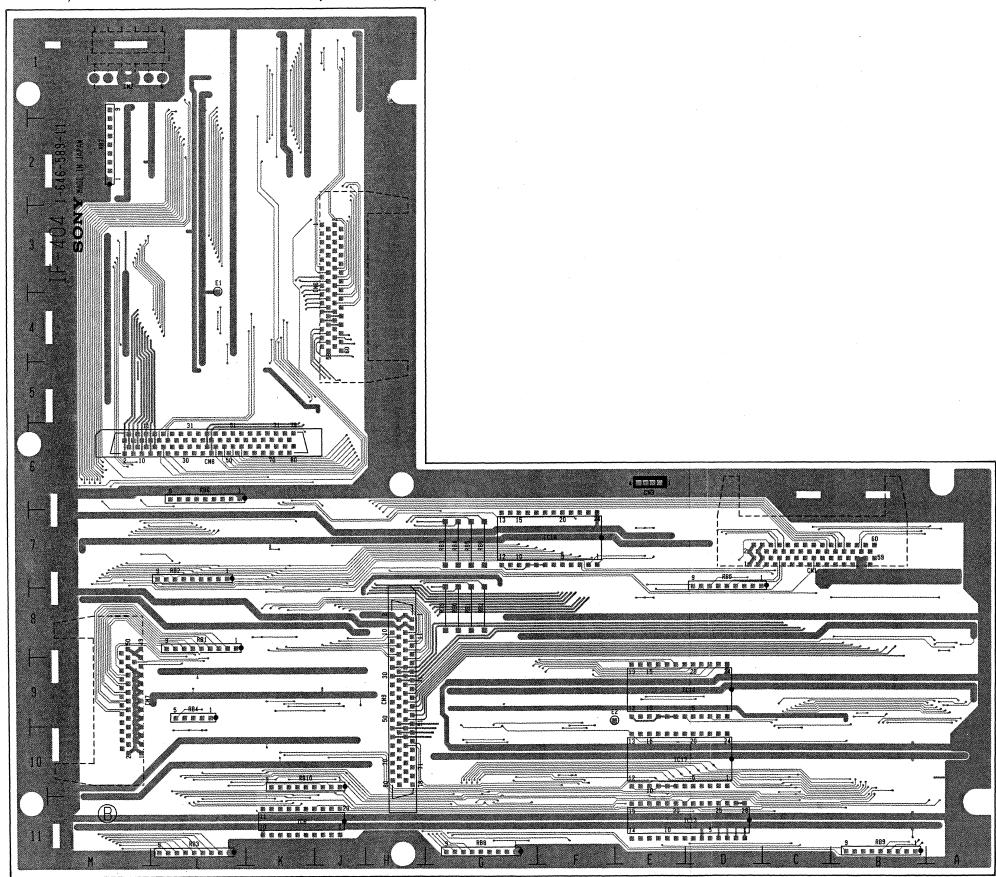


IF-404-A SIDE-

IF-404; Switch Interface Board (For KY-243)



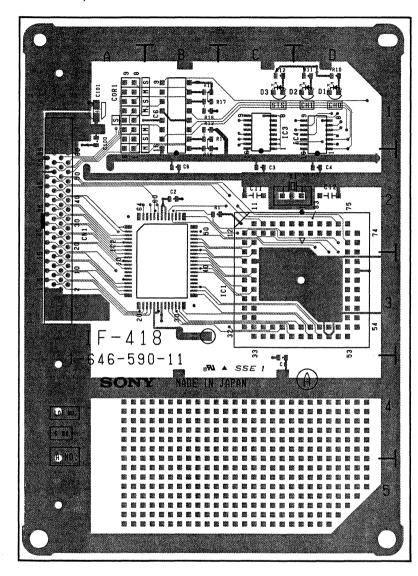
IF-404; Switch Interface Board (For KY-243)



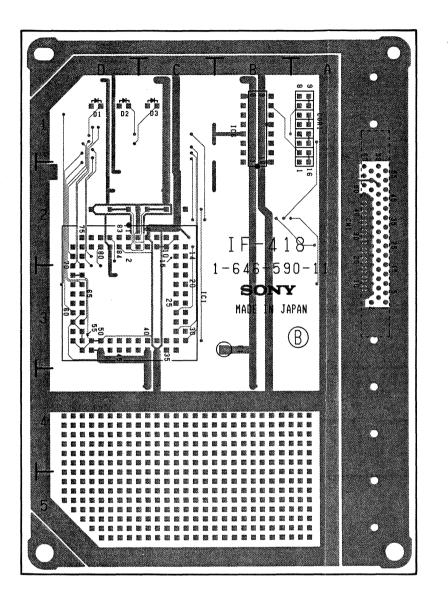
IF - 4 0 4 -B SIDE-1-646-589-11 BKDS-6010

IF-40	4 (1 - 6 4 6 - 5	589-11)	
CN1 CN2 CN3 CN6 CN7 CN8	C-7 M-1 E-6 J-3 M-9 *L-6 *H-9	IC 5 0 IC 5 1 IC 5 2 IC 5 3 IC 5 4 IC 5 5 IC 5 6 IC 5 7	B - 9 B - 9 F - 1 F - 9 G - 9 E - 7
D 1 D 2 E 1	A - 1 0 A - 1 1 L - 3	R B 1 R B 2 R B 3	L - 8 L - 7 L - 1
E 2 I C 1 I C 2 I C 3 I C 5 I C 6 I C 7 I C 1 1 8 I C 1 1 7 I C 1 1 8 I C 1 2 1 I C 2 2 4 I C 2 2 6 I C 2 2 7 I C 2 3 3 I C 3 3 6 I C 3 3 6 I C 3 7 I C 3 7 I C 4 7 I C 4 8 I C 4 9	F - 9 L - 1 1 0 C - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RB4 RB5 RB6 RB7 RB8 RB9 RB10	L - 9 D - 7 L - 6 M - 2 G - 1 B - 1 K - 1

IF-418; Interface Board

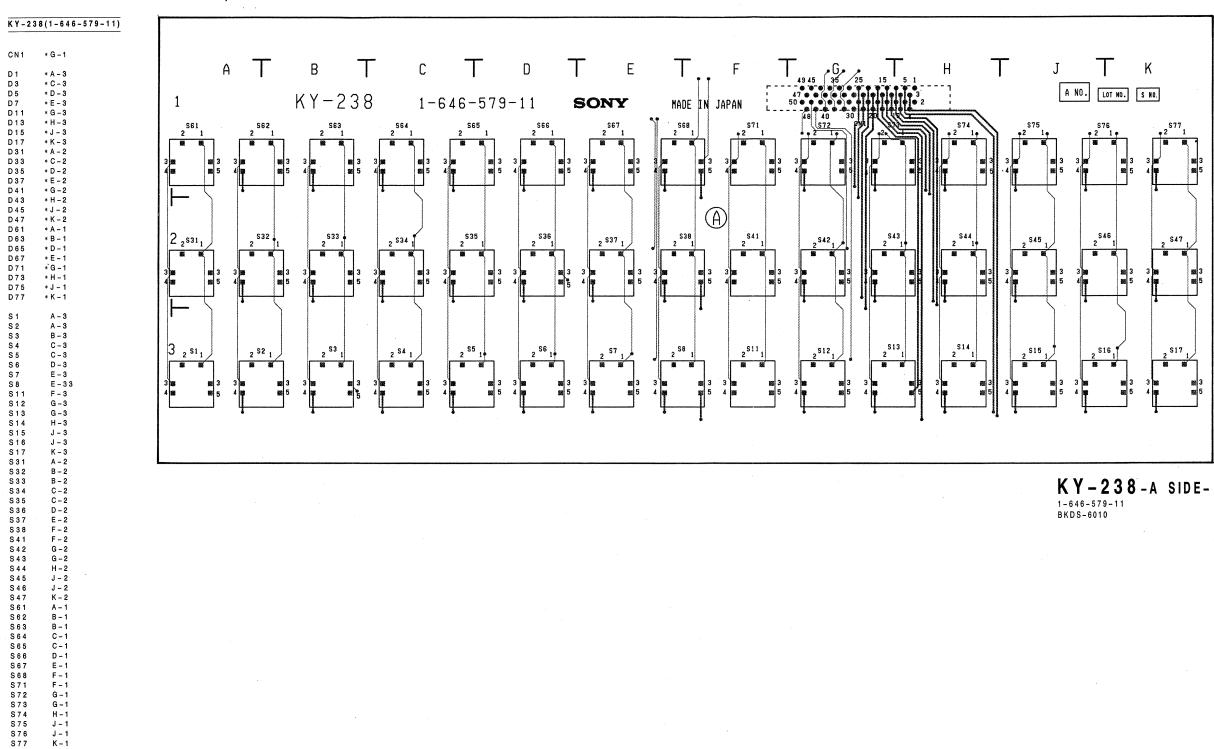


IF-418-A SIDE-1-646-590-11 BKDS-6010



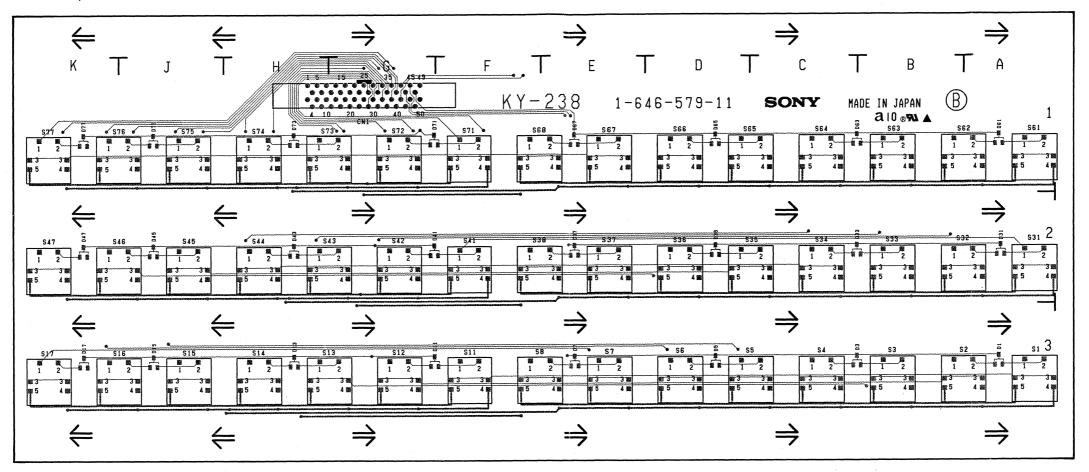
| F - 4 1 8 - B SIDE - 1-646-590-11 | BKDS-6010

KY-238; Switch Board



*;B SIDE

KY-238; Switch Board

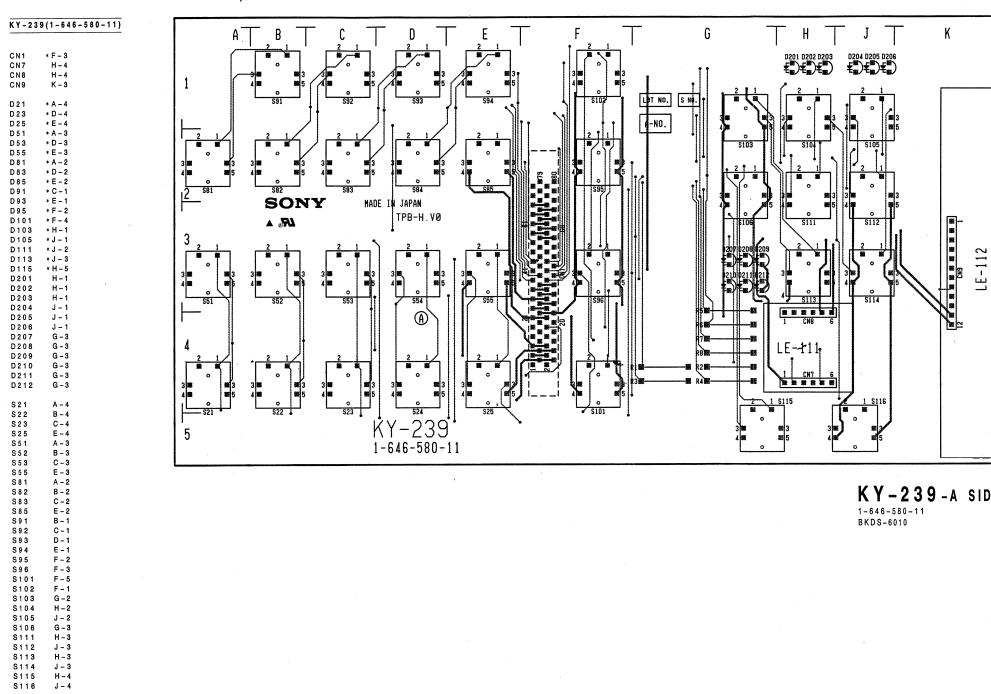


KY-238-B SIDE-1-646-579-11 BKDS-6010

KY-238(1-646-579-11) CN1 *G-1 * C - 3 * D - 3 * E - 3 * G - 3 * H - 3 * K - 2 * C - 2 * D - 2 * E - 2 * J - 2 * A - 1 * B - 1 * D - 1 * B - 1 * C - 1 * C - 2 * D - 2 * G - 2 * D - 1 * G - 1 * B - 1 * D - 1 * G D 5 D 7 D 1 1 D 1 3 D13 D15 D17 D31 D33 D35 D37 D41 D43 D 4 5 D 4 7 D 6 1 D 6 3 D 6 5 D 6 7 D 7 1 D 7 3 D 7 5 D 7 7 F-1 G-1 G-1 H-1 J-1 J-1 K-1

+;B SIDE

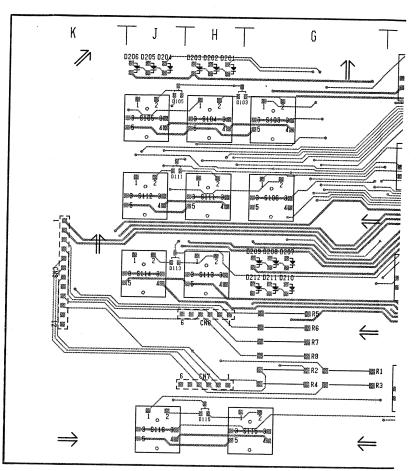
KY-239; Switch Board



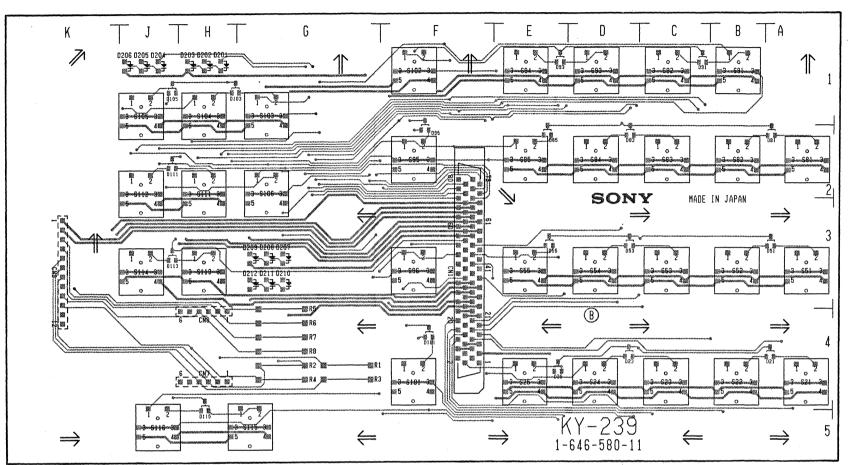
KY-239-A SIDE-1-646-580-11 BKDS-6010

*;B SIDE

KY-239; Switch Board

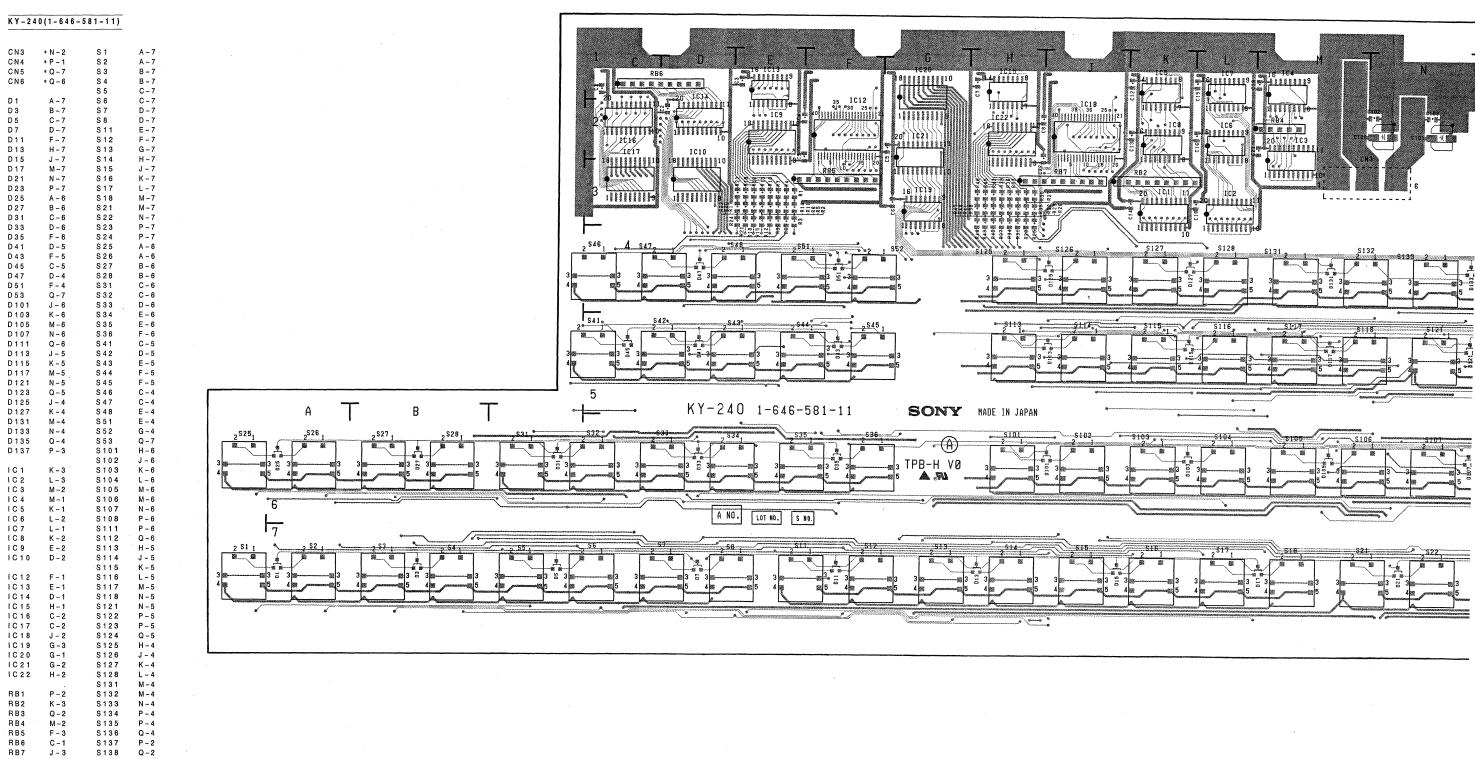


KY-239; Switch Board



KY-239-B SIDE-1-646-580-11 BKDS-6010

KY-240; Switch Board

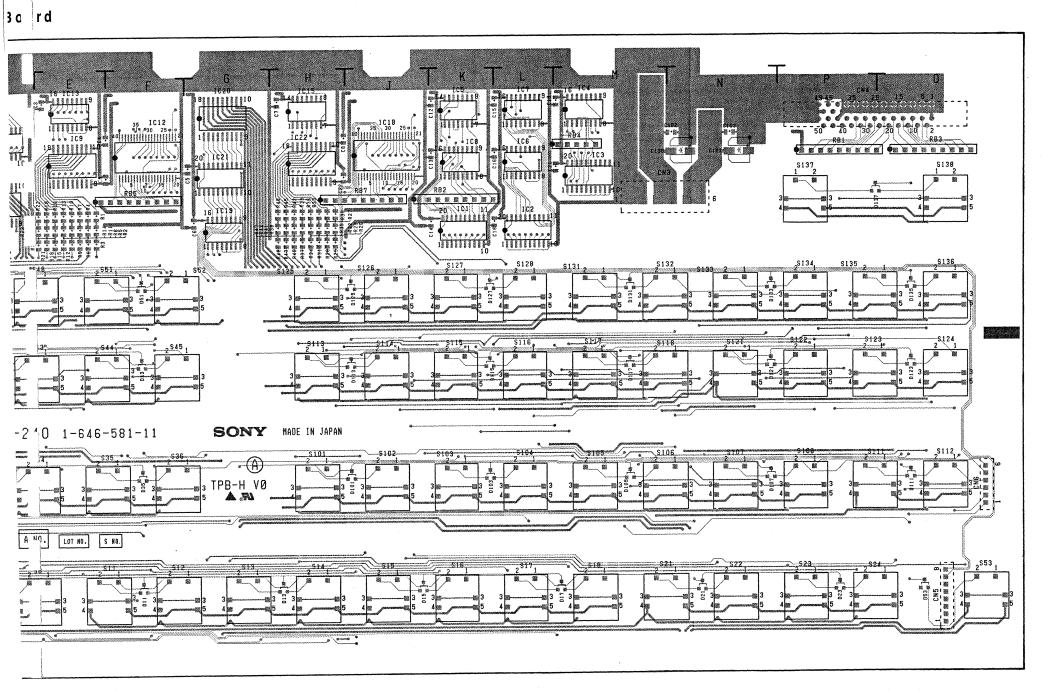


K - 3 Q - 2 M - 2 F - 3 C - 1 J - 3

S133 S134

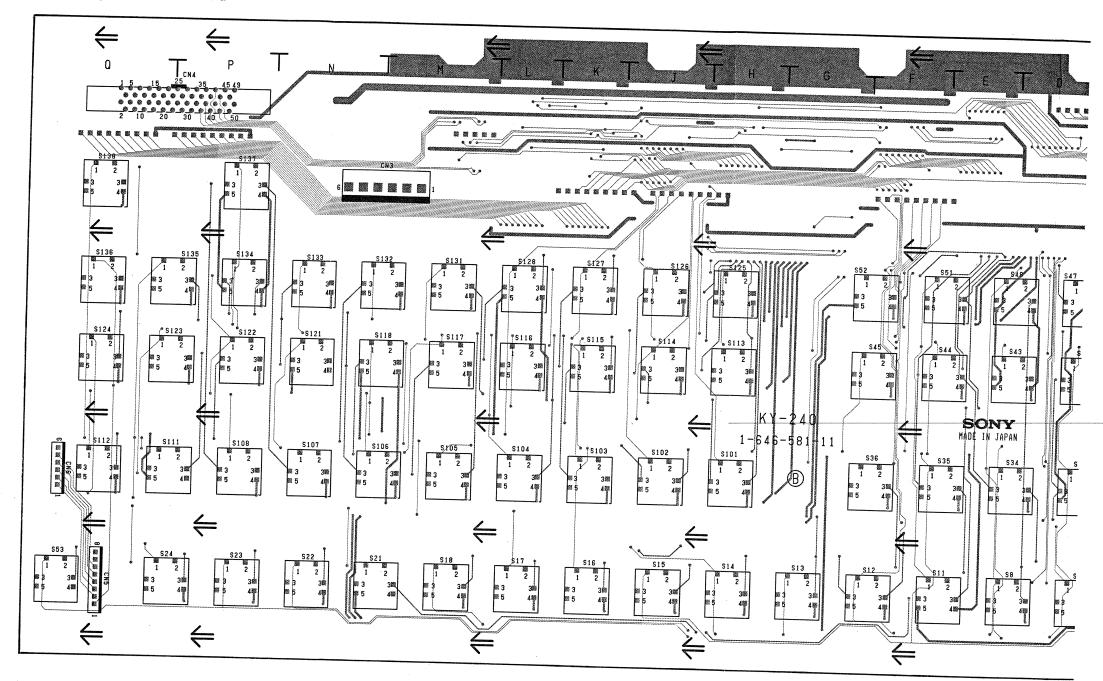
S135 S136 S137 S138

*;B SIDE



KY-240-A SIDE-

KY-240; Switch Board



KY-240(1-646-581-11)

* Q - 7 * Q - 6 \$103 \$104 \$105 \$106 \$107 \$108 \$111 \$112 \$113 \$114

S 1 1 6 S 1 1 7

S118 S121 S122

S128 S131

S133 S134

\$135 \$136 \$137 \$138 N - 4 P - 4 P - 4 Q - 4 P - 2

Q - 2

CN3 CN4 CN5 CN6

D13 D15 D17 D21 D23 D25 D27 D31 D33 D35 D41

D103 D105 D107

D123 D125 D127 D131 D133

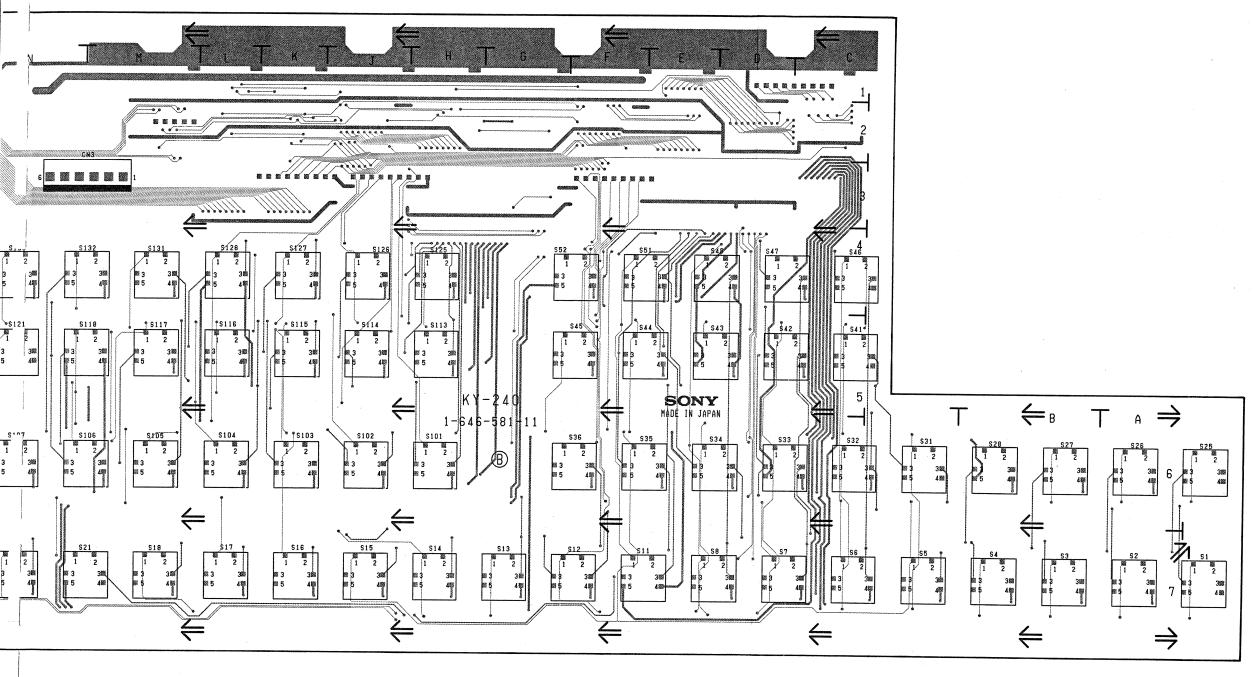
D135 D137

| C 1 | C 2 | C 3 | C 4 | C 5 | C 6 | C 7 | C 8 | C 9 | C 1 0

IC12

IC13 IC14 IC15 IC16 IC17 IC18 IC19 IC20 IC21 IC22

RB1 RB2 RB3 RB4 RB5 RB6 RB7

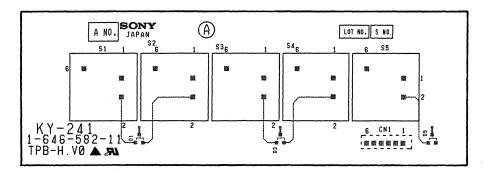


K Y - 2 4 0 -B SIDE-1-646-581-11 BKDS-6010

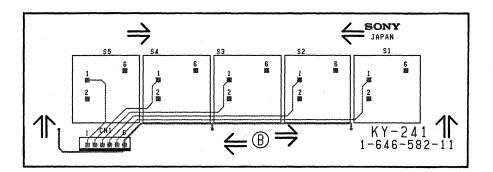
7 – 15

*;B SIDE

KY-241; Switch Board

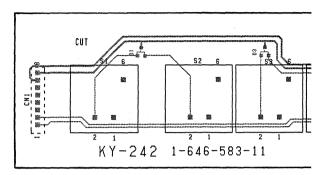


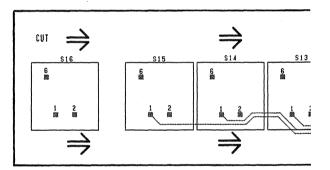
KY-241 -A SIDE-1-646-582-11 BKDS-6010



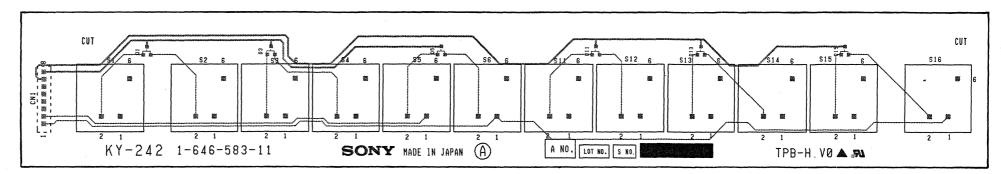
KY-241 -B SIDE-1-646-582-11 BKDS-6010

KY-242; Switch Board

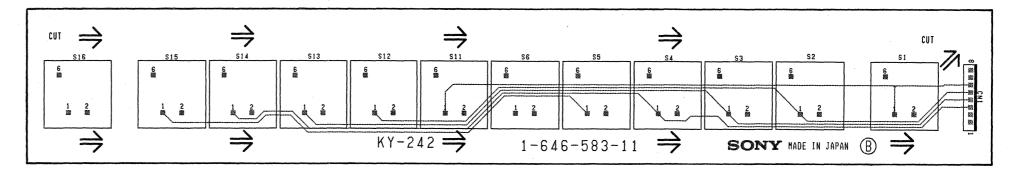




KY-242; Switch Board



KY-242-A SIDE-1-646-583-11 BKDS-6010



KY-242-B SIDE-1-646-583-11 BKDS-6010

CN1 CN2 CN3 CN4 CN5

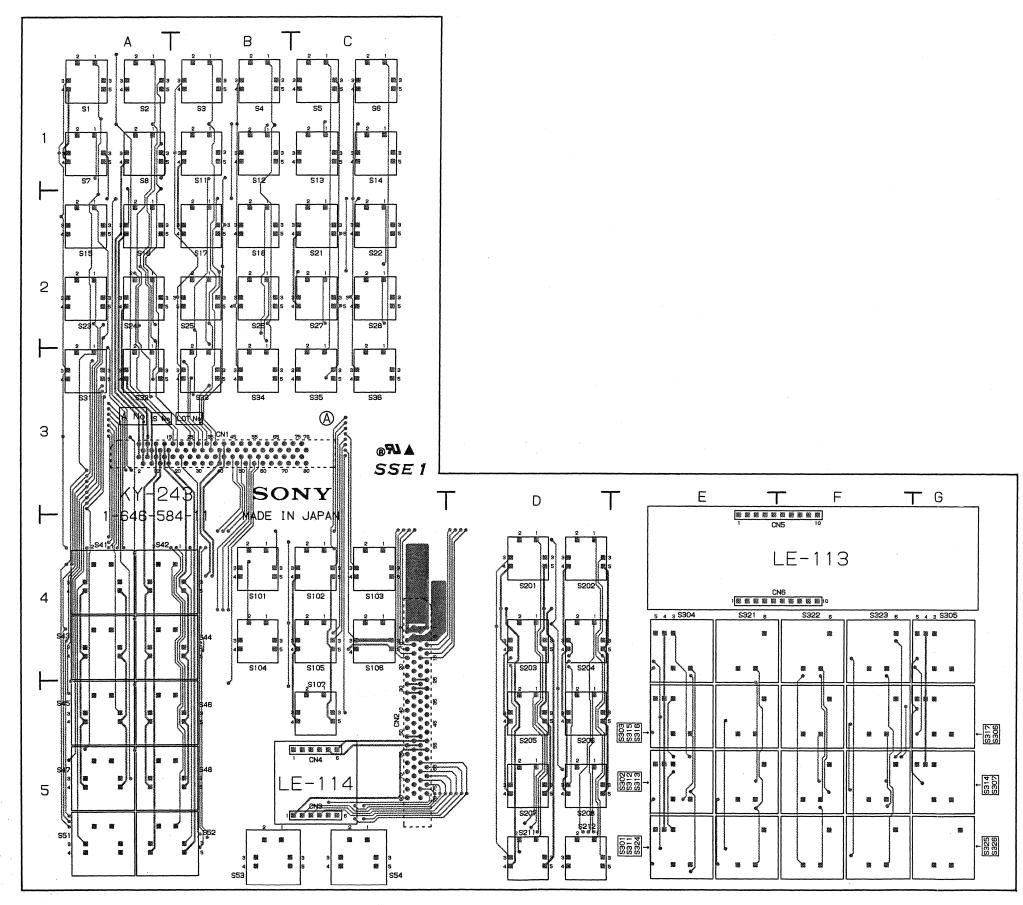
KY-243(1-646-584-11)

* A - 1
* B - 1
* C - 1
* B - 1
* A - 1
* B - 1
* C - 1
* B - 2
* C - 2
* A - 2
* C - 2
* A - 3
* C - 2
* A - 4
* A - 5
* B - 4
* C - 5
* B - 4
* C - 5
* D - 5
* D - 5
* E - 5
* E - 5
* F - 5
* F - 5
* F - 4
* F - 5

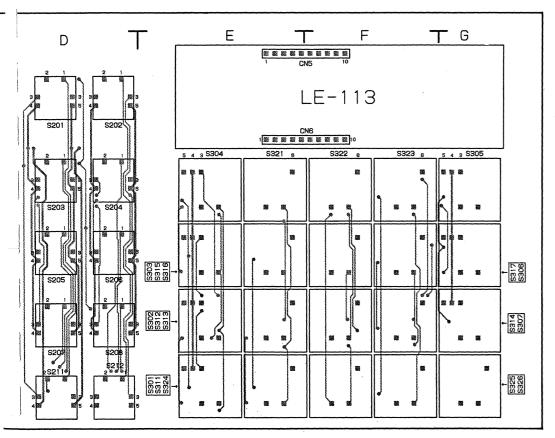
A - 1 A - 1 B - 1 C - 1 C - 1 A - 1 B - 1 C - 1 C - 1 A - 2 A - 2 B - 2 C - 2

*;B SIDE

KY-243; Switch Board

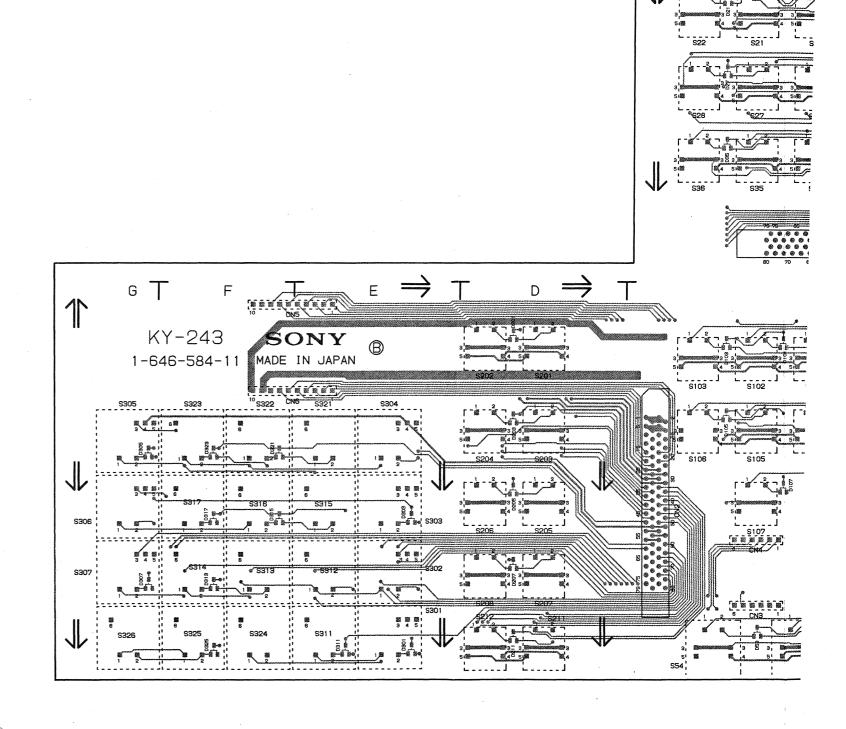


KY-243-A SIDE-1-646-584-11 BKDS-6010



KY-243-A SIDE-

KY-243; Switch Boar

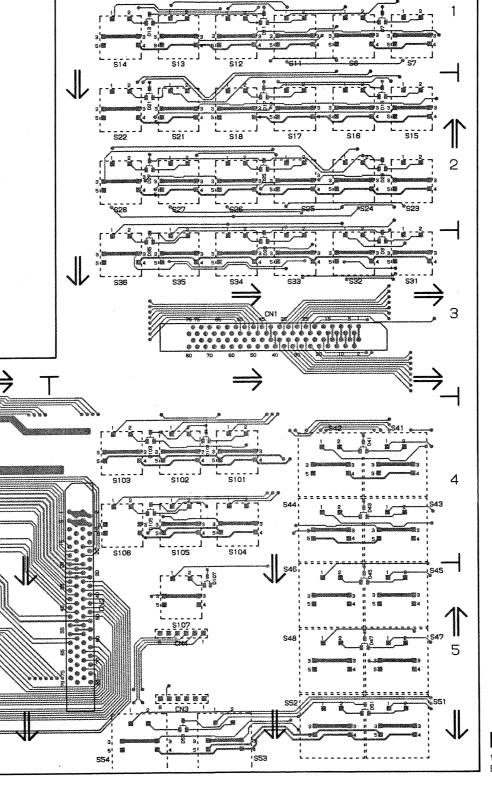


G T

KY-243

1-646-584-11 MADE IN JAPAN

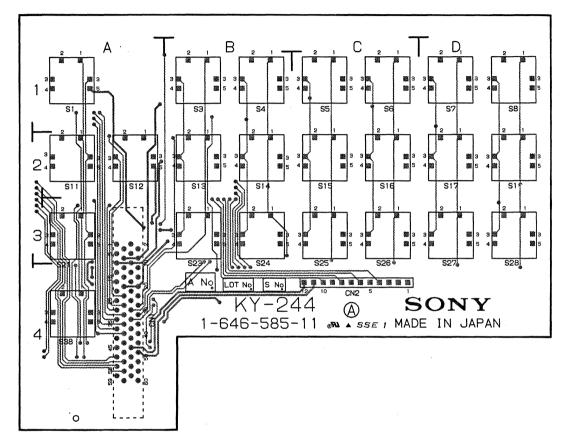
KY-243; Switch Board



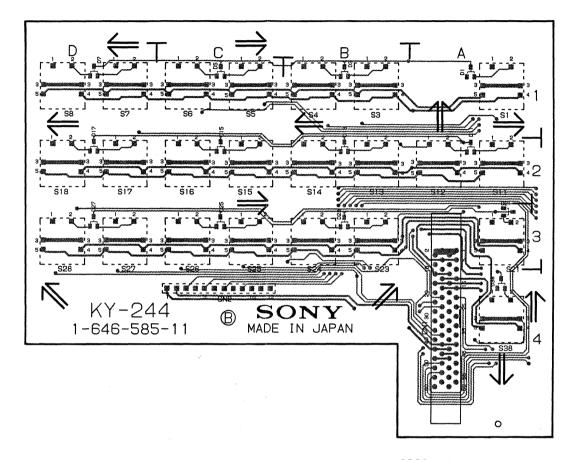
KY-243(1-646-584-11) \$ 23 \$ 24 \$ 25 \$ 26 \$ 27 \$ 28 \$ 31 \$ 32 \$ 33 \$ 33 \$ 33 \$ 34 \$ 35 \$ 34 \$ 35 \$ 34 \$ 35 \$ 34 \$ 35 \$ 34 \$ 35 \$ 36 \$ 37 \$301 \$302 \$303 \$304 \$305 \$306 \$307 \$311 \$312 \$312 \$313 \$314 \$315 \$316 \$317 \$321 \$322 \$323 \$324 *;B SIDE

KY-243-B SIDE-1-646-584-11 BKDS-6010

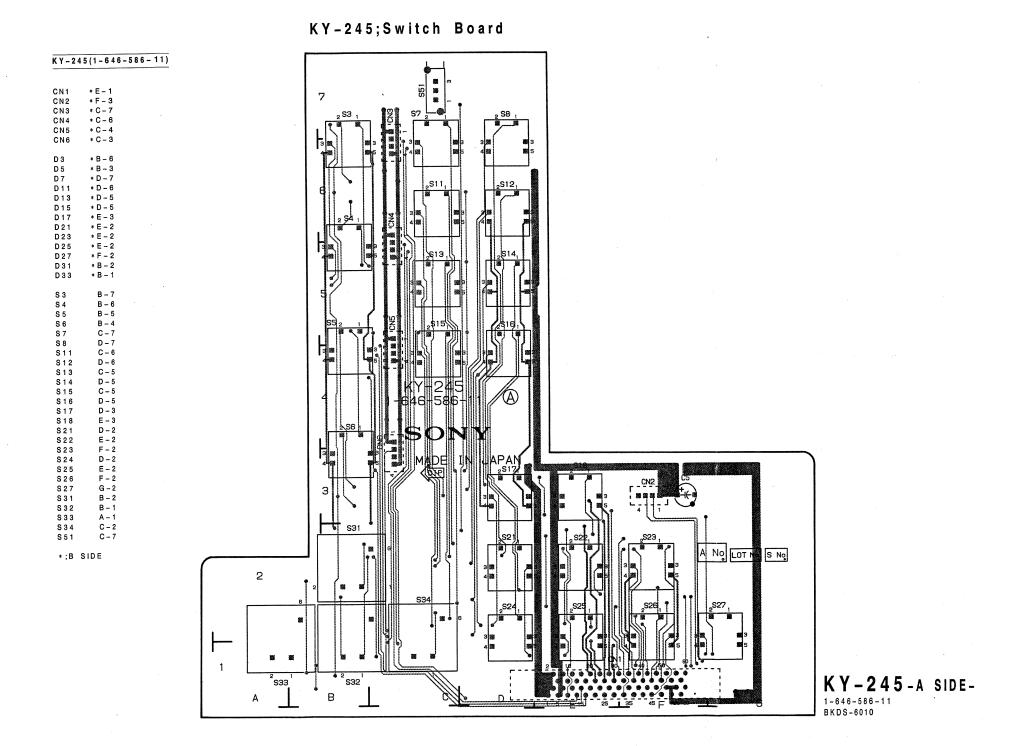
KY-244; Switch Board



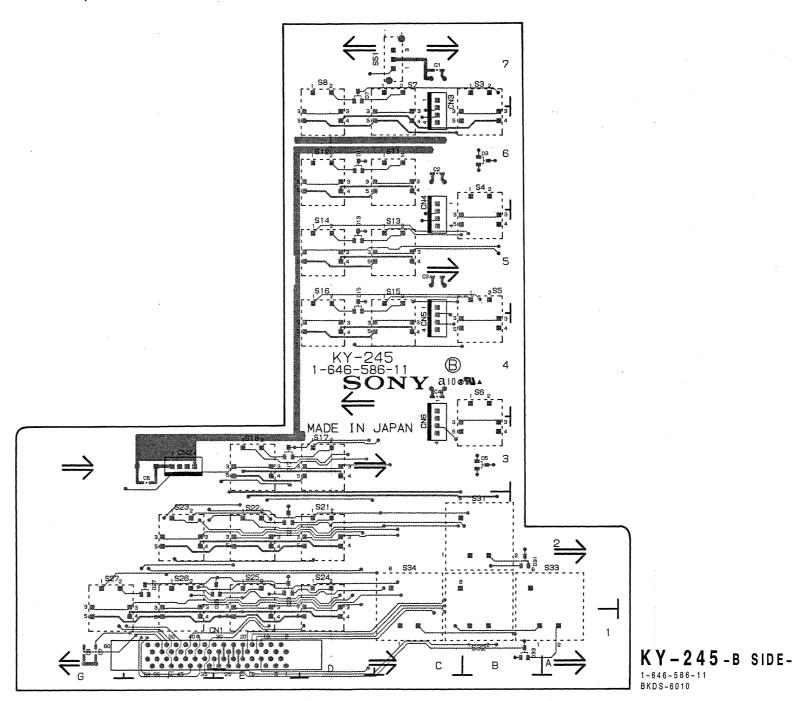
KY-244-A SIDE-



KY-244-B SIDE-1-646-585-11 BKDS-6010



KY-245; Switch Board



 KY-245(1-646-586-11)

 CN1 *E-1

 CN3 *C-7

 CN4 *C-6

 CN5 *C-4

 CN6 *C-3

 D3 *B-6

 D5 *B-3

 D7 *D-7

 D11 *D-6

 D13 *D-5

 D17 *E-3

 D21 *E-2

 D23 *E-2

 D25 *E-2

 D27 *F-2

 D31 *B-2

 D33 *B-1

 S3 B-7

 S4 B-6

 S5 B-5

 B6 B-4

 S7 C-7

 S8 B-7

 S4 B-6

 S5 B-5

 S6 B-4

 S7 C-7

 S8 B-7

 S4 B-6

 S5 B-5

 S6 B-4

 S7 C-7

 S8 B-7

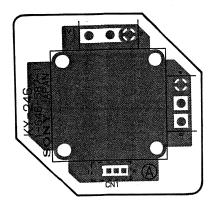
 S6 B-4

 D7

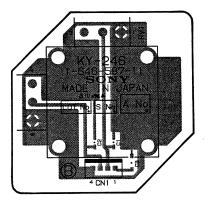
 D7

 D7</

KY-246; Switch Board

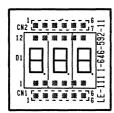


KY-246-A SIDE-



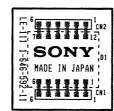
K Y - 2 4 6 - B SIDE-1-646-587-11 BKDS-6010

LE-111;LED Board



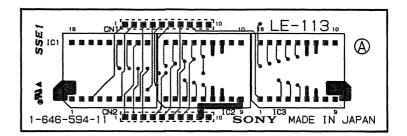
LE-111-A SIDE-

1-646-592-11 BKDS-6010



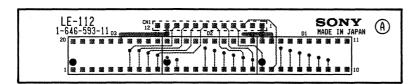
LE-111-B SIDE-

1-646-592-11 BKDS-6010 LE-113;LED Board

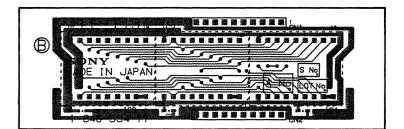


LE-113-A SIDE-

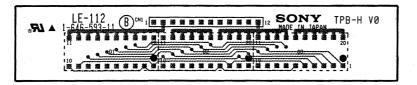
LE-112;LED Board



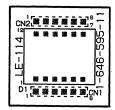
LE-112-A SIDE-1-646-593-11 BKDS-6010



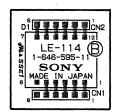
LE-113-B SIDE-1-646-594-11 BKDS-6010



LE-112-B SIDE-1-646-593-11 BKDS-6010 LE-114; LED Board

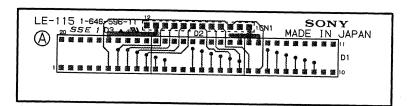


LE-114-A SIDE-1-646-595-11 BKDS-6010

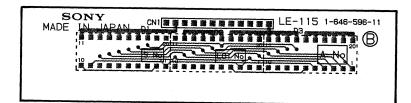


LE-114-B SIDE1-646-595-11
BKDS-6010

LE-115;LED Board

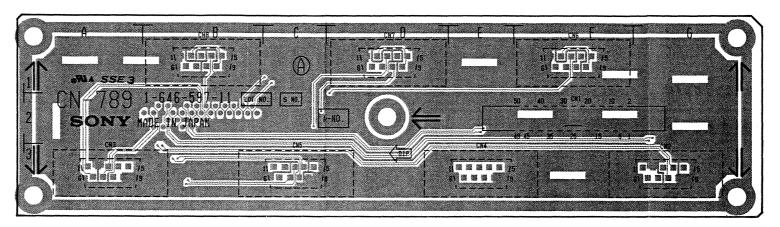


LE-115-A SIDE-1-646-596-11 BKDS-6010

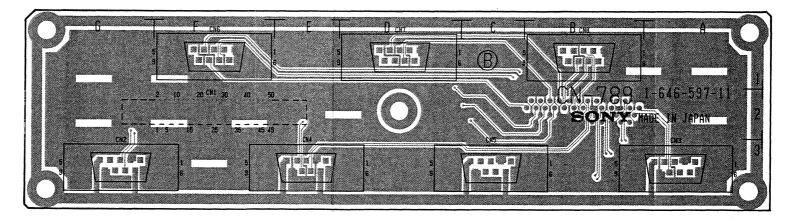


LE-115-B SIDE-1-646-596-11 BKDS-6010

CN-789; Connector Board

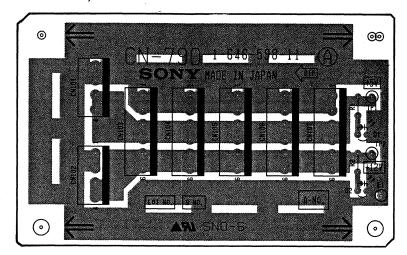


CN-789-A SIDE-1-646-597-11 BKDS-6010



CN-789-B SIDE-1-646-597-11 BKDS-6010

CN-790; Connector Board



CN-790-A SIDE-

SECTION 8 SEMICONDUCTOR PIN ASSIGNMENTS

ここに記載されているIC、トランジスタ、ダイオードは、それぞれの機能を等価的に表したものです。したがって、互換性を表すものではありません。(互換性のない型名が併記されていることもあります。) 部品の交換をするときは、SPARE PARTSの章を参照してください。

ICs, transistors and diodes of which functions are equivalent are described here. Therefore, incompatible device names may be described together. For parts replacement, refer to the Spare Parts section in this manual.

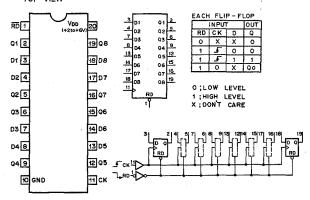
IC	PAGE	IC	PAGE	IC	PAGE	IC	PAGE
74AC273SJ	8-2	LM1881	8-36	SN74HC74ANS	9.40	LIDCAEEGOO	. 50
74ACT257SJ	8-2	LM360M	8-36	SN74HC86ANS	0.40	UPC4558G2	
74F38SJ	8-2	LT1009CZ	8-36	SN74HCT139ANS	0.46	UPD28C64C-20	
		LT1191CS8	8-36	SN74HCT574ANS	0.40	UPD431000AG	
AM26LS31CNS	8-2	LT1227CS8	8-37	SN74LS594N	0.40	UPD4701 AC UPD7004C	
AM26LS32ACNS				SN75ALS194N	0.40	UPD/004C	8-55
AM27C101-120DC	8-2	MAX232CPE	8-37	SN75ALS195J	6-49	11100700401 40	
		MAX691CPE		SM6103S	0-49	WS27C010L-12	
CAT35C104HP	8-3	MB766P		3M01033	8-45	WS57C291B-35	
CAT35C104K	8-3	MB8421-90LPFQ		TC4S66F	0.50	WS57C45-35T	
CX20158		MB84256A-10LPF		TC7S32F	8-50	WS57C49B-35T	8-56
CX20201A-1		MB8431-90LPFQ		TC70104F	8-51		
CX22029	8-4	MB88325PF		TC7SU04F TC74AC00F	8-51	TRANSISTOR	
CX23065A	8-15	MB88346BPF	8-40	TO74AC00F	8-45		
CXA1389AQ	8-15	MB89322APFQ	8-40	TC74AC02F	8-45	2SA1150	
CXD1095Q	8-3	MB89394-PF		TC74AC04F	8-45	2SA1162	
CXD1217M	8-8	MC10125L		TC74AC08F	8-50	2SA1175	8-56
CXD1312Q		MC10H124M		TC74AC138F	8-46	2SA1462	
CXD1319AQ	8-4	MC10H125M		TC74AC139F		2SC2757	
CXD8026Q	8-5	MC14495P1		TC74AC157F	8-46	2SC2785	8-56
CXD8052Q	R-12	MC34051P	0-40	TC74AC163F	8-46	2SC3053	8-56
CXD8053Q		MC68882RC25	0.42	TC74AC164F	8-47	2SC3356	8-56
CXD8055	Q_1/	MC74HC589F	8-43	TC74AC174F	8-47		
CXD8056Q		MC74HC595AF		TC74AC240F	8-50	DIODE	
CXD8058Q	0-11 0.17	MANGEEZAG	8-42	TC74AC245F	8-47		
CXD8059	9-16	MN6557AS		TC74AC245P	8-47	30D4	8-56
CXD8060Q	8-20	MSM514221A-4RS	8-44	TC74AC257F	8-2		
CXD8061	9 10	RTC-62421B	5.44	TC74AC299F	8-50	1S2836	
CXD8062Q	0-10	H1C-02421B	8-44	TC74AC32F	8-48	1S953	
CXD8063Q	0 00	CDV4004 A		TC74AC367F	8-48	1SS226	8-56
CXD8065	0 10	SBX1601A		TC74AC540F	8-48	1SS271	8-56
CXD8066	8-24	SBX1602A	8-45	TC74AC541F			
CXD8067	8-26	SN74HC00ANS	8-45	TC74AC564F		CR6CM	8-56
CXD8190Q	9_29	SN74HC02ANS		TC74AC574F	8-49		
CXD8258Q	o-20	SN74HC04ANS		TC74AC74F	8-49	GL-6R202	8-56
CXD8300Q	0-D	SN74HC109ANS		TC74AC86F	8-49		
CXD8338AQ	o-O	SN74HC138ANS	8-46	TC74ACT139F	8-46	LB-203ML	
CXD8364Q		SN74HC139ANS		TC74ACT157F		LD-010MW	8-57
CXD8827Q	0.00	SN74HC14ANS		TC74ACT245F		LN15BP	
ONDOOL/ Q	0-30	SN74HC157ANS	8-46	TC74ACT541F	8-48	LN35BP	8-57
DS1000M-50	0.00	SN74HC163ANS	8-46	TC74ACT574F	8-49		
DO 1000IVI-30	0-30	SN74HC164ANS	8-47	TC74ACT74F	8-49	MA152WK	8-57
GAL16V8A-15LP	0.00	SN74HC174ANS	8-47	TC74HC123AF	8-51		
GAL16V8A-25LP	0-30	SN74HC175ANS	8-47	TC74HC4051AF	8-51	RD??ESB?	8-57
GAL16V8A-25LP		SN74HC238ANS		TC74HC4053AF	8-50		
GALIOVOB-IULP	8-30	SN74HC241ANS		TC74HC595AF	8-42	S25VB40	8-57
UD647100V	0.00	SN74HC245ANS	8-47	TC74HCT86AF		SLR-34VC3	
HD647180X	8-32	SN74HC251ANS		TD62083F	8-51		
HD647180XOCP6	8-34	SN74HC32ANS		TD62783F	8-51	TLR214	8-57
HM628128LPF-7	8-30	SN74HC367ANS		TL082CPS	8-51		
HM63021FP-28		SN74HC393ANS		TL084CNS	8-51		
HM63021P-28	8-36	SN74HC540ANS	8-48	TL431CPL	8-52		
ICL7621BCSA	0.00	SN74HC541ANS	8-48	TLC372CPS	8-52		
IUL/021BUSA	8-36	SN74HC574ANS	8-49	TMP82C79M-2			

等価回路はICメーカーのData Bookに従いました。

The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

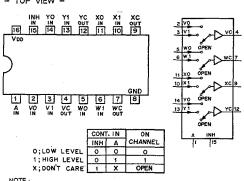


74AC273SJ (NS) FLAT PACKAGE C-MOS OCTAL D-TYPE FLIP-FLOPS WITH RESET



74ACT257SJ (NS) FLAT PACKAGE TC74AC257F (TOSHIBA) FLAT PACKAGE

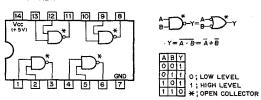
C-MOS 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



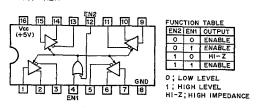
NOTE:	
TYPE	Von
74AC/74HC	+2 to +6V
74ACT	+5V
TC74AC257F	+2 to +5.5V

74F38SJ (NS) FLAT PACKAGE

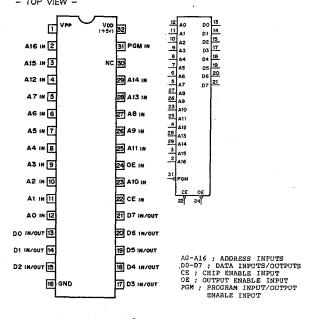
TTL 2-INPUT POSITIVE-NAND GATE BUFFER WITH OPEN-COLLECTOR - TOP VIEW -

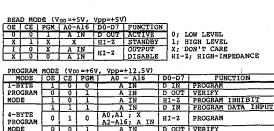


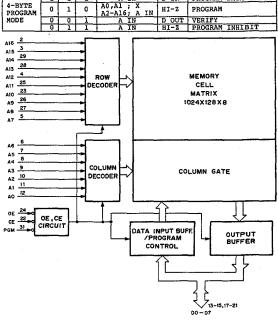
AM26LS31CNS (TI) FLAT PACKAGE HIGH SPEED DIFFERENTIAL LINE DRIVER - TOP VIEW --



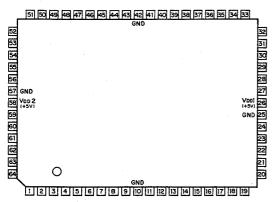
AM27C010-120DC (AMD) C-MOS 1M (131072x8)-BIT EPROM - TOP VIEW -



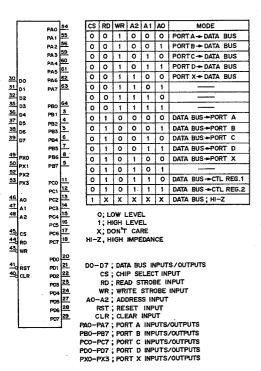


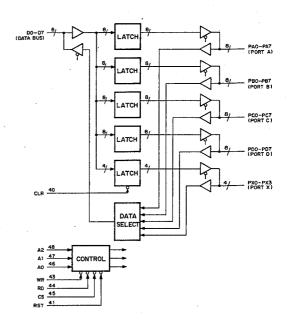


CXD1095Q (SONY) FLAT PACKAGE C-MOS I/O PORT EXPANDER - TOP VIEW -

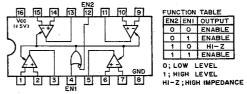


PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
			NC	17	0	0	PC6	33			NC	49	0	0	PXO
2			NC	18	0	0	PC7	34			NC	50	0	0	PX1
3	0	0	PB 1	19			NC	35	0	0	03	51			NC
4	0	0	PB2	20	0	0	PDO	36	0	0	D4	52·	o	0	PX2
5	0	0	PB3	21	0	0	PD1	37	0	0	D5	53	0	0	PX3
6	0	0	PB4	22	0	0	PD2	38	0	0	D6	54	0	0	PAO
7	0	0	PB5	23	0	0	PD3	39	0	0	07	55	0	0	PA1
8	0	0	PB6	24	0	0	PD4	40	0		CLR	56	0	0	PA2
9	0	0	PB7	25			GND	47	0		RST	57			GND
10			GND	26	0		V00 (+5V)	42			GND	58	0		VDD(+5V)
11	0	0	PCO	27	0	0	PD5	43	0	L.	WR	59	0	0	PA3
12	0	0	PC1	28	0	0	PD6	44	0		RD	8	0	0	PA4
13	0	0	PC2	29	0	0	PD7	45	0		C\$	61	0	0	PA5
14	0	0	PC3	30	0	0	DO	46	0		AO	62	О	0	PA6
15	0	0	PC4	31	0	0	DI	47	0		A1	63	0	0	PA7
16	0	0	PC5	32	o	0	02	48	0		A2	64	0	0	PBO



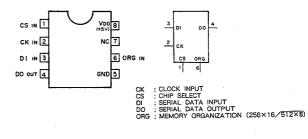


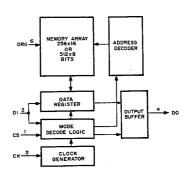
AM26LS32ACNS (TI) FLAT PACKAGE
HIGH SPEED DIFFERENTIAL LINE RECEIVER
- TOP VIEW -



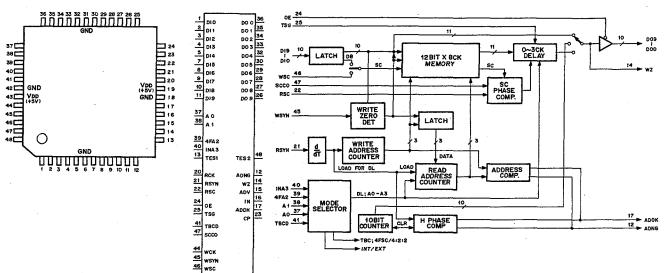
	SENSE	INPUT VOLT
LS32	±200mV	± 7V
LS33	±500mV	±15V

CAT35C104HP (CATALYST SEMICONDUCTOR)
CAT35C104K (CATALYST SEMICONDUCTOR) FLAT PACKAGE
C-MOS 4K-BIT SERIAL EEPROM
- TOP VIEW -





CXD1319AQ (SONY) C-MOS VIDEO BUFFER MEMORY - TOP VIEW -



PIN NO.	!N	оит	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL	PIN NO.	IN	OUT	SYMBOL
1	0		DIO	13	0		TES 1	25	0		TSG	37	0		AO
2	0		DI1	14		0	WZ	26		0	D09	38	0		A1
3	0		DI2	15	\Box	0	ADV	27		0	DOB	39	0		4FA2
4	0		DI3	16		0	IN	28		0	D07	40	0		INA3
5	0		DI4	17		0	ADOK	29		0	D06	41	0		TBCD
6			GND	18			GND	30		0	D05	42			GND
7	0	1	DIS	19			VDD (+5V)	31			GND	43			VDD(+5V)
8	0		D16	20	0		RCK	32		0	D04	44	0		WCK
9	0		DI7	21	0		RSYN	33		0	D03	45	0		WSYN
10	0		DIB	22	0		RSC	34		0	D02	46	0		WSC
11	0		019	23		0	CP	35		0	D01	47	0		SCCO
12		0	ADNG	24	0		0E	36		0	DOO	48		0	TES2

INPUT
DIO-Dis; DATA INPUT
TES; TEST
RCK, READ CLOCK INPUT (REFERENCE)
RSYN; READ SYNC INPUT (REFERENCE)
RSC; READ SUB CARRIER INPUT (REFERENCE)
OB: ENABLE OUTPUT (L; OUTPUT)R; HIGH IMPEDANCE)
TSG; TSG MODE APPOINT (L; TSG/R; TBC OR DL MODE)
A0; DL MODE OP DELAY TIME APPOINT/BC MODE: 2fH GATE ON, OFF
APPOINT (H; ONLY; OFF)
4FA2; DL MODE: DELAY TIME APPOINT/TBC MODE: INPUT PULSE
PORMAT APPOINT (H; AFSC/L; 4:2:2:2)
INA3; DL MODE: DELAY TIME APPOINT/TBC MODE: HSYNC DETECT
(H; INT/L; EXT)
TBCD; TBC/DL MODE SELECT (H; TBC/L; DL) (TSG LOW; TSG MODE)
WCK; WRITE CLOCK INPUT
WSYN; EXT MODE OF WRITE H SYNC INPUT (INT MODE; NC)
WSC; 4FSC MODE SC OF PHASE ADJUST ONLY: L

OUTPUT
DOO-DO9; DATA OUTPUT
ADNG; TBC UNSTABILIZED; L (READ WRITE 7+1CLOCK)
WZ; VIDEO DATA OUTPUT OF ABSOLUTE PHASE
ADV, IN; WRITE/READ H SYNC OF RELATION



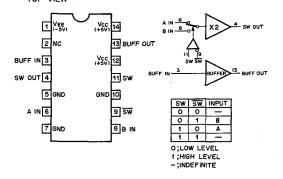
ADOK; TBC STABILIZED; L (READ CP; WRITE 3+1 CLOCK)

_				
TBCD	4FA2	5000	INA3	CP OUTPUT
0	X.	0	X	INTIS SYNCHEXT SYNC
_0	X	1	X	INTI4 SYNCHEXT SYNC
1	0	X	1	INTI3 SYNCHEXT SYNC
1	1	X	1	INTI4 SYNC EXT SYNC
1	X	X	0	EXT SYNC

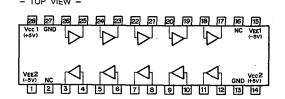
O; LOW LEVEL 1; HIGH LEVEL X; DON'T CARE

INT13 SYNC; D2-D9 DETECTED 13.5M FORMAT SYNC INT14 SYNC; D2-D9 DETECTED 14.3M FORMAT SYNC EXT SYNC; INPUT SYNC FROM WSYN (45PIN)

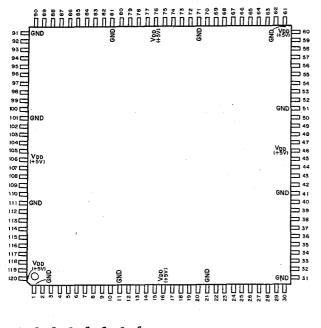
CX20158 (SONY) FLAT PACKAGE VIDEO SWITCHER AND BUFFER - TOP VIEW -

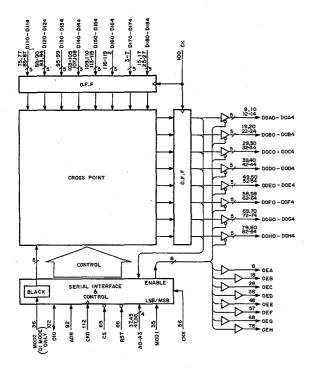


CX22029 (SONY) TTL-TO-ECL TRANSLATOR - TOP VIEW -



CXD8026Q (SONY) FLAT PACKAGE (STANDARD TYPE)
CXD8258Q (SONY) FLAT PACKAGE (HIGH SPEED TTL I/F TYPE)
CXD8300Q (SONY) FLAT PACKAGE (HIGH SPEED C-MOS TYPE)
C-MOS 8x8 CHANNEL DIGITAL PARALLEL MATRIX SWITCHER (5BIT)
- TOP VIEW -

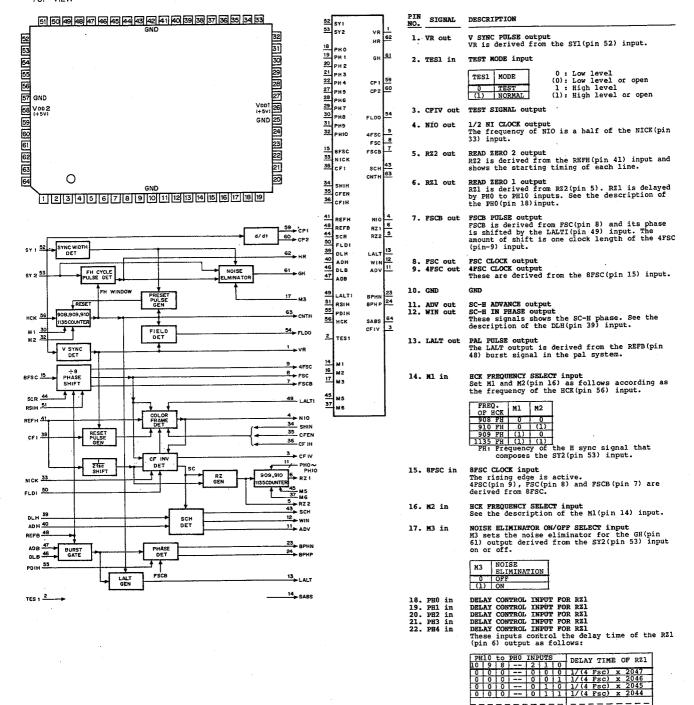




87	D114	14	INPUTS	; CHIP ADDRESS CONTROL
86	D113	DOA4 13	A0 – A3 ADR	: ADDRESS
85		2000	CK	SYSTEM CLOCK
	DI 12	DOA2 12	CKD	SERIAL INTERFACE CLOCK
77	DI11	DOA1 10	CKX	SWITCHING TIMING PULSE
75	DIIO	DOAO 9	CS	CHIP SELECT
94		i		5 BIT DIGITAL IN (CH1)
	D124	DOB4 24		5 BIT DIGITAL IN (CH2)
93	0123	DOB3 23		5 BIT DIGITAL IN (CH3)
90	0122		DI40 - DI44	5 BIT DIGITAL IN (CH4)
89		DO82 22	DI50 - DI54	5 BIT DIGITAL IN (CH5)
88	0121	DOB1 20	DI60 - DI64	5 BIT DIGITAL IN (CH6)
98	DIZO	D080 19	DI70 - DI74	5 BIT DIGITAL IN (CH7)
99		34		
	D134		MOD1	: MODE 1 SELECT (L : LSB 5 BIT H : MSB 5 BIT)
98	D133	DOC3 33	MOD2	: MODE 2 SELECT (D1 MODE: 13.5 MHz CLOCK INPUT
97	DI32	DOCS 32	RST '	; 5 BIT DIGITAL IN (CHB); ; MODE 1 SELECT (L:LSB 5 BIT H:MSB 5 BIT); ; MODE 2 SELECT (D1 MODE:13.5 MHz CLOCK INPUT; ; RESET PULSE
96	DI31	DOC1 30	SMPL	SAMPL PULSE
95				
-	D130	DOCO 23	OUTPUTS	
108		44	DOA0 - DOA4	; 5 BIT DIGITAL OUT (CHA)
107	D144	DOD4 43	DOB0 - DOB4	; 5 BIT DIGITAL OUT (CHB)
105	D143	0003	DOC0 - DOC4	; 5 BIT DIGITAL OUT (CHC)
	DI42	DOD2 42	DODO - DOD4	5 BIT DIGITAL OUT (CHD)
104	D141	DOD1 40	DOE0 - DOE4	: 5 BIT DIGITAL OUT (CHE)
103	DI40	DODO 39	DOF0 - DOF4	; 5 BIT DIGITAL OUT (CHF)
Į.	D140		DOGO - DOG4	; 5 BIT DIGITAL OUT (CHG)
115	DI54	DOE4 54	DOHO - DOH4	; 5 BIT DIGITAL OUT (CHH)
114	DIS3	DOE3 53	OEA - OEH	; ENABLE OUT FOR CHA - CHH
113		52		
	DI52	0002	INPUT/OUTPUT	
	D151		DIO	; SERIAL DATA
109	D150	DOEO 49		
2		64		
	D164	DOF4 I		
119	D163	DOF3 63		
	DI62	DOF2 62		•
	D161	50		
116		DOF1 58		
	D160	DOFO		
7	D174	74		
6		DOG4 73		
-	D173	0063		
	D172	0062 72		
4	D171	DOG1 70		
_ 3	D 170	DOG0 69		
	5.70			
27	D184	DOH4 84		
26	0183	DOH3 83		
25	DI82	00H2 82		
17		lan		
15	DIBS	DOH1 79		
	080	роно 1		
1		l.		
55	A3	OEA 8		
47	AZ	OEB 18		
45		120		
37	Al	38		
31	A0 -	OEU -		
35		0EE 48		
36	MOD1	OEF 58		
	MOD2	66		
67	SMPL	OEG		
100	•	OEH L		
66		- 1		
92	RST	- 1		•
103	ADR	- 1		
	D10	Į.		
<u>65</u>	cs	i		
112	>CKD	ı		
56	CKX	- 1		
	una	1		

											(VDD = +5V)
PIN NQ.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1/0	SYMBOL	PIN NO.	1∕0	SYMBOL
1	-	GND	31	- 1	GND	61	-	GND	91		GND
2		DI64	32	0	DOC2	62	0	DOF2	92		ADR
3	1	DI70	33	0	DOC3	63	0	DOF3	93	-	DI23
4	11	DI71	34	0	DOC4	64	0	DOF4	94		DI24
5		D172	35	-	MOD1	65	1	cs .	95	1	DI30
6		DI73	36		MOD2	66		RST	96		DI31
. 7	- 1	DI74	37		A0	67		SMPL	97		DI32
8	0	OEA	38	0	OED	68	0	OEG	98	1	DI33
9	0.	DOA0	39	0	DOD0	69	0	DOG0	99	1	DI34
10	0	DOA1	40	0	DOD1	70	0	DOG1	100	1	CK
11	-	GND	41	-	GND	71	- 1	GND	101	_	GND
12	0	DOA2	42	0	DOD2	72	0	DOG2	102	1/0	DIO
13	0	DOA3	43	0	DOD3	73	0	DOG3	103	1	DI40
14	0	DOA4	44	0	DOD4	74	0	DOG4	104	1	DI41
15	1	DI80	45	- 1	A1	75		DI10	105	-1	DI42
16	-	OOV	46	-	day	76	-	VDD	106		daV
17	1	DI81	47	1	A2	77	1	DI11	107	1	DI43
18	0	OEB	48	0	OEE	78	0	OEH	108		. DI44
19	0	DOB0	49	0	DOE0	79	0	DOH0	109	1	DI50
20	0	DOB1	50	0	DOE1	80	0	DOH1_	110	1	DI51
21	-	GND	51	T -	GND	81	-	GND	111	-	GND
22	0	DOB2	52	0.	DOE2	82	0	DOH2	112		CKD
23	0	DOB3	53	0	DOE3	83	0	DOH3	113	. 1	DI52
24	0	DOB4	54	0	DOE4	84	0	DOH4	114	- 1	DI53
25	1	DI82	55		A3	85		DI12	115	1	DI54
26	1	D183	56	1	CKX	86	I	DI13	116		DI60
27	1	DI84	57	0	OEF	87	T	DI14	117		DI61
28	0	OEC	58	0	DOF0	88		DI20	118	1	DI62
29	0	DOC0	59	0	DOF1	89	1	DI21	119		DI63
30	0	DOC1	60	-	VDD	90	1	DI22	120	-	VDD

CXD1312Q (SONY) FLAT PACKAGE CMOS VIDEO CLOCK GENERATOR - TOP VIEW -



1 1 1 -- 1 0 0 1/(4 Fsc) x 1 1 1 -- 1 0 1 1/(4 Fsc) x 1 1 1 -- 1 1 0 1/(4 Fsc) x 1 1 1 -- 1 1 0 1/(4 Fsc) x

BURST PHASE-N output BURST PHASE-P output These are the outputs of the phase comparator between the DLB(pin 46)/ADB(pin 47) inputs and the internal SC that is equivalent to the FSCB (pin 7) output.
The PDIH(pin 55) input inhibits the BPHN and BPHP outputs.

PDIH	BPHN/BPHP OUTPUTS
(0)	INHIBIT
1	ENABLE

25. GND 26. VDD1

GND +5V input

27. PH5 in 28. PH6 in 29. PH7 in 30. PH8 in 31. PH9 in 32. PH10 in

DELAY CONTROL INPUT FOR R21
THESE inputs control the delay time of the R21
(pin 6) output. See the description of PHO(pin 18) input.

33. NICK in

NI CLOCK input
NICK is the clock pulse to generate the NI
(normal/invert) pulse to be used internally.
Usually, CNTH(pin 63) for the NTSC system or
LAIT(pin 13) for the PAL system is input to
this terminal.
The rising edge is active.

34. SHIH in 35. CPEN in 36. CFIH in

MODE SELECT (COLOR FRAMING DET./RZ GEN) input MODE SELECT (COLOR FRAMING DET./RZ GEN) input MODE SELECT (COLOR FRAMING DET./RZ GEN) input These inputs set CXD1312Q to the color framing detector mode or the read zero generator mode as follows:

SHIH	CFEN	CFIH	MODE
0	(0)	1	COLOR FRAMING DETECTOR
(1)	(0)	(0)	RZ GENERATOR

37. M6 in

SIGNAL SYSTEM SELECT input Set M5(pin 45) and M6 as follows according as the video signal to be used.

MODE & VIDEO SIGNAL	M5	М6
TEST	0	0
4FSC/FH=909 : PALM	0	(1)
4FSC/FH=910 : NTSC	(1)	0
4FSC/FH=1135: PAL	(1)	(1)

38. CFI in

COLOR FRAME PULSE input
This pulse is used for resetting the internal
LALT signal in the RZ GENERATOR mode.

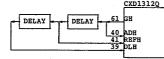
39. DLH in 40. ADE in

DELAY H input
ADVANCE H input
These H signals are used for the SC-H phase detection. The SC-H phase detector outputs
ADV (pin 11) and WIN(pin 12) according as the phase relation between DLH/ADH and the internal SC that is equivalent to FSC(pin 8).

If the internal SC is between ADH and DLH, the WIN output goes to LCW.

If the internal SC is in advance of ADH, the ADV output goes to LCW.
The usual connection is as follows:

(XD13120)



41. REFR in

REFERENCE H POLSE input
REFH is used for the color framing detector and
the RZ generator. GH(pin 61) or HR(pin 62) is
usually input to this terminal.

42. GND

43. SCH out

SC-H PHASE output
This signal shows the phase difference between
REFH(pin 41) and internal SC. When they are in
phase, the SCH output is as follows:

44. SCR in

DIRECT RESET INPUT FOR DIVIDE-BY-8 COUNTER This signal resets the divide-by-8 counter of 8FSC(pin 15) input directly.

SCR	DIVIDE-BY-8
DOL	COUNTER
(0)	RESET
1	COUNT

45. M5 in

SIGNAL SYSTEM SELECT input
See the description of the M6(pin 37) input.

46. DLB in

DELAY BURST input
ADVANCE BURST input
These burst signals are used for phase
comparison with the internal SC.
The usual connection is as follows:



REFERENCE BURST input REFB is used for resetting the divide-by-8 counter. RSIH(pin 51) inhibits the resetting as follows: 48. REFB in

RSIH	RESET BY BY REFB
(0)	INHIBIT
1	ENABLE

49. LALTI in PAL FULSE input

The PAL pulse should be input to this terminal for the PAL system, but this terminal should be kept open for the NTSC system.

PAL FIELD PULSE input
Phase alternating pulse by field.
The FLDO(pin 54) output is usually input to this
terminal for the PAL system, but this terminal
should be kept open for the NTSC system. 50. FLDI in

RESET INHIBIT input
This signal inhibits for the REFB(pin 48) input
to reset the divide-by-8 counter of 8FSC(pin 15) 51. RSTH in input. See the description of the REFB(pin 48) input.

ROUGH SYNC PULSE input (negative pulse) VR(pin 1), CP1(pin 59), CP2(pin 60) and the internal gate pulse are derived from SY1. 52. SYl in

SYNC FULSE input (negative pulse)
This sync pulse generates GH(pin 61), and GH is input to the SC-H phase detection circuit. See the description of DLH(pin 39) and ADH(pin 40). 53. SY2 in

PIELD PULSE output
Phase altering pulse by field. 54. FLDO out

BPHN/BPHP OUTPUT INHIBIT input This signal inhibits the BPHN(pin 23) and BPHP (pin 24) outputs. See the description of BPHN and BPHP. 55. PDIE in

nH CLOCK input
The frequency of the HCK input has the
specified relation with that of the H sync
signal that composes the \$Y2(pin 53) input. See
the description of the M1(pin 14) input. 56. HCK in

GND +5V input

LEADING EDGE OF SY1(pin 52) output TRAILING EDGE OF SY1(pin 52) output 59. CP1 out 60. CP2 out

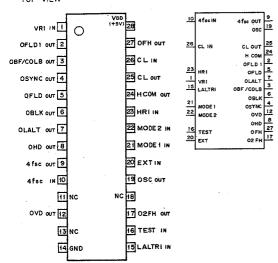
61. GH out 62. HR out

GATED H PULSE output
H PULSE output
GH and HR are derived from the SY2(pin 53) sync
pulse input. Both signals consist of H pulses
but not of a half H pulse.
GH is processed by the noise eliminator and
loses nine pulses in the V sync interval.

COUNT H output
CNTH is a H pulse signal that is divided from
the HCK(pin 56) input. The divider is reset by
the SYL(pin 52) input.
See the description of the Ml(pin 14) input. 63. CNTH out

64. SABS out TEST output

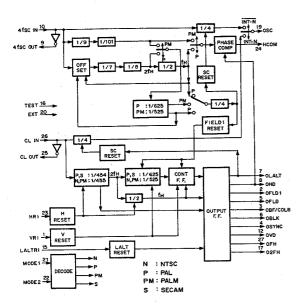
CXD1217M (SONY) FLAT PACKAGE C-MOS SYNC GENERATOR - TOP VIEW -



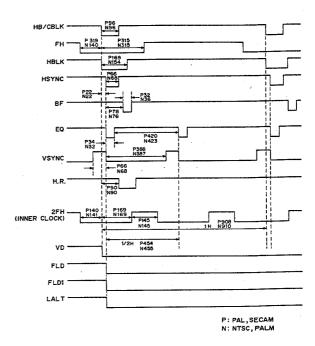
SYSTEM

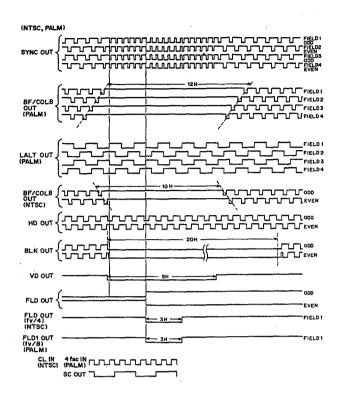
NTSC SECAM PALM

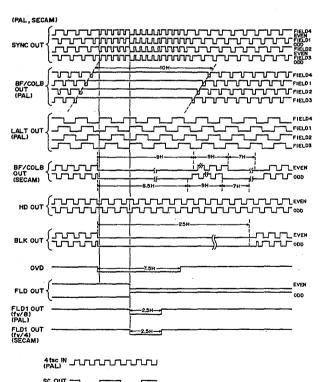
SYSTEM	4fsc	CLOCK	INF	
NTSC	910fH	910fH	MODE1	MODE
PAL	1135fn+2fv	908fH	0	0
PALM	909fH	910fH	0	1
SECAM	-	908fs	1	0
			1	1



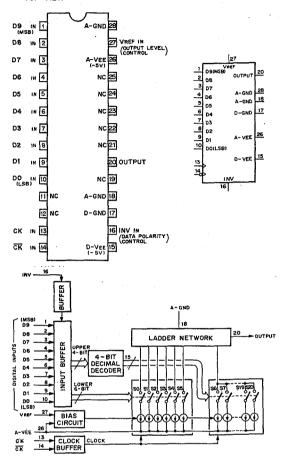








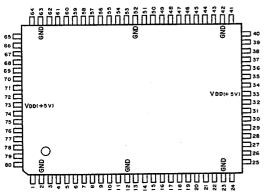
CX20201A-1 (SONY) FLAT PACKAGE ECL 10-BIT D/A CONVERTER - TOP VIEW -



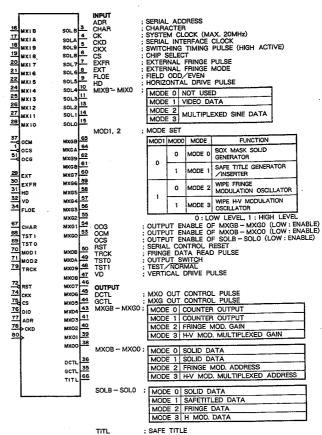
		D/	ATA	INPU	TS	OUTPUT					
D9	D8	D7	D6	D5	D4	D3	D2	D1	DO	INV "O"	INV "1"
1	1	1	1	1	1	1	1	1	1	Vo(OS)	Vo (OS) -1.000
1	i	i	i	1	i	1	1	1	0	Vo(05) - 0.001V	Vo (OS) -0.999
1	1	,	1	ا ۱	1	1	1	1	1	Vo(05) - 0.002V	Vo (OS) -0.991
1		1	1	١.	!	1	;	1 1			
•	l i					1	11	1 1		l :	
ì	ò	ò	·ò	Ó	o,	ó	ö	ò	ó	Vo (OS) - 0.500V	Vo(OS) - 0.50
0	1	1	1	1	1	1	1	1	1	Vo(05) - 0.501V	Vo(OS) -0.50
0	1.	1	1	1 1	1	1	1	1	0	Vo(05) - 0.502V	Vo (OS) - 0.50
1	1 :	!!	!	l ! .	1 1	!	!	!!	1 1		1
!	1 1	lil		[1	l i		ļ į	}
0	°o	Ò	Ó	0	Ó	Ó	Ó	Ó	Ó	Vo(OS) - 1.000V	Vo (OS)

1; ECL HIGH LEVEL (=-0.89V)
0; ECL LOW LEVEL (=-1.75V)
V0(0S); ZERO OFFSET

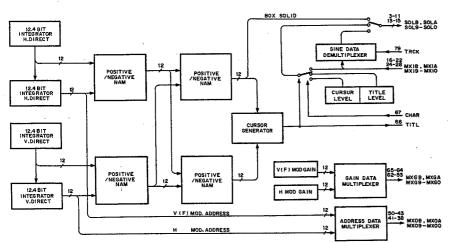
CXD8053Q (SONY) FLAT PACKAGE C-MOS BOX GENERATOR - TOP VIEW -



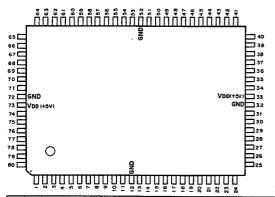
PIN No.	1/0	SIGNAL									
1	- T	ocs	21		MXI6	41	0	MXO3	61	0	MXG8
2	-	GND	22	-	MXI5	42	-	GND	62	0	MXG9
3	0	SOLB	23	-	GND	43	0	MXO4	63	-	GND
4	0	SOLA	24	-	MXI4	44	0	MXO5	64	0	MXGA
5	0	SOL9	25	T	MXI3	45	0	MX06	65	0	MXGB
6	0	SOL8	26	Т	MXI2	46	0	MXO7	66	0	TITL
7	0	SOL7	27	1	MXI1	47	0	MXO8	67	ı	CHAR
8	ō	SOL6	28	1	MXIO	48	0	MXO9	68		TST1
9	0	SOL5	29	1	EXT	49	0	MXOA	69	1	TSTO
10	0	SOL4	30	1	EXFR	50	0	MXOB	70	_	MOD1
11	0	SOL3	31	Т	HD	51	1	OCG	71	_	MODO
12	-	GND	32	1	VD	52	-	GND	72	_	RST
13	0	SOL2	33	-	Voo	53	0	MXG0	73	ı	VDD
14	0	SOL1	34	1	FLOE	54	0	MXG1	74	ï	CKX
15	0	SOL0	35	0	GCTL	55	0	MXG2	75	1	CS
16	1	MXIB	36	0	DCTL	56	0	MXG3	76	1/0	DIO
17	ı	MXIA	37	1	OCM	57	0	MXG4	77	1	ADR
18	ı	MXI9	38	0	MX00	58	0	MXG5	78		CKD
19	T	MXI8	39	0	MXO1	59	0	MXG6	79	1	TRCK
20	1	MXI7	40	0	MXO2	60	0	MXG7	80	, I	CK



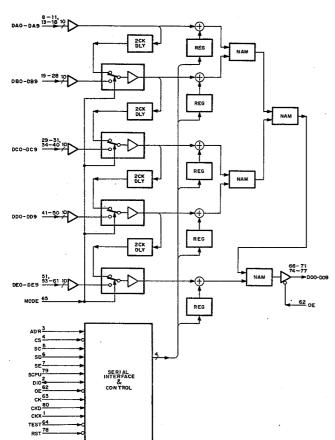
INPUT/OUTPUT DIO ; SERIAL DATA

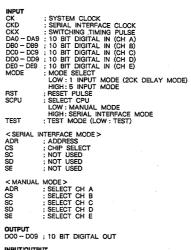


CXD8056Q (SONY) FLAT PACKAGE C-MOS NAM CROSS POINT - TOP VIEW -

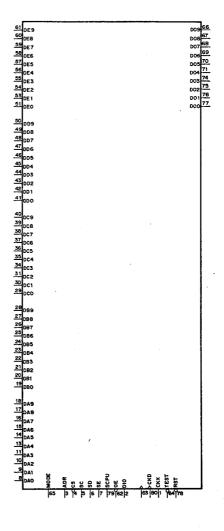


PIN No.	1/0	SIGNAL									
1	1	CKX	21	-	D82	41		DDO	61	1	DE9
2	1/0	DIO	22	1	DB3	42	_	DD1	62	1	OE.
3		ADR	23		DB4	43		DD2	63	1	CK
4	- 1	cs	24	1	DB5	44	_	DD3	64	T	TEST
5	1	sc	25	1	DB6	45	-	DD4	65	1	MODE
6	1	SD	26	1	DB7	46	1	DD5	66	0	DO9
7		SE	27	1	DB8	47		DD6	67	0	DO8
8		DAO	28	L	D89	48	_	DD7	68	0	D07
9	1	DA1	29		DC0	49	ı,	DD8	69	0	D06
10	1	DA2	30	_	DC1	50	- 1	DD9	70	0	DO5
11	1	DA3	31	-	DC2	51	1	DEO	71	0	DO4
12	-	GND	32	-	GND	52	-	GND	72	-	GND
13		DA4	33	-	Voo	53	ı	DE1	73	-	Vpp
14		DA5	34	-	DC3	54	T.	DE2	74	0	DO3
15	1	DA6	35	-	DC4	55	1	DE3	75	0	DO2
16		DA7	36	-	DC5	56		DE4	76	0	DO1
17		DA8	37		DC6	57	ı	DE5	77	0	D00
18		DA9	38		DC7	58		DE6	78	ī	RST
19		DB0	39		DC8	59	ī	DE7	79	T .	SCPU
20		DB1	40		DC9	60		DE8	80	1	CKD

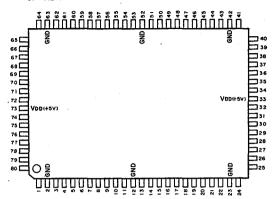




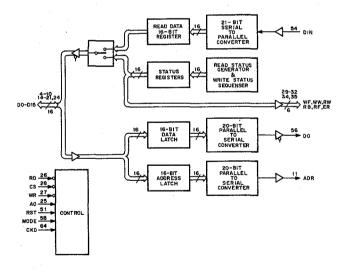
INPUT/OUTPUT
DIO ; SERIAL DATA



CXD8052Q (SONY) FLAT PACKAGE C-MOS SERIAL CONTROLLER - TOP VIEW -

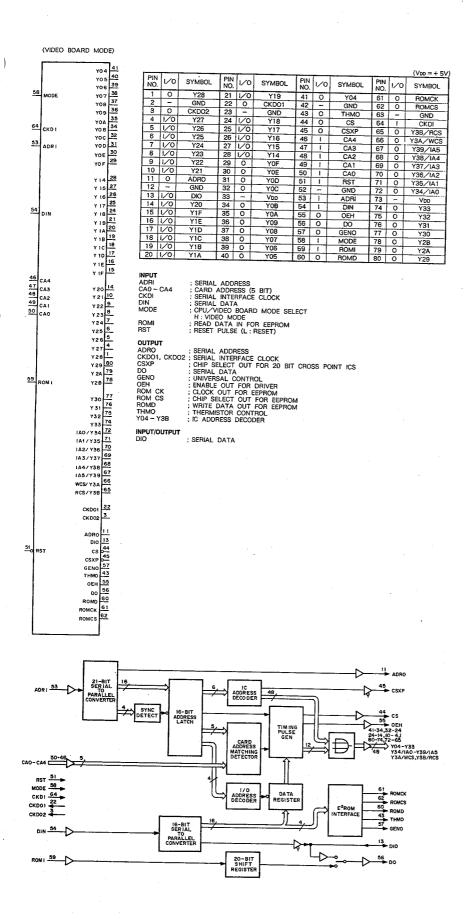


(CPU	MODE	E)									(Vpp = + 5\
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL.
1	-	NC	21	1/0	D14	41	-	NC	61		NC
2	_	GND	22	0	CKDO1	42	-	GND	62		NC
3	0	CKD02	23	-	GND	43	-	NC	63	<u> </u>	GND
4	1/0	D0	24	0	D15	44	1	NC	64		CKD
5	1/0	D1	25	1/0	AO	45	- :	. NC	65	-	NC
6	1/0	D2	26	1/0	RD	46	-	NC	66	-	NC
7	1/0	D3 ·	27	1/0	WR.	47	-	NC	67	-	NC ·
8	1/0	D4	28	0	CS	48	-	NC	68		NC
.9	1/0	D5	29	0	WF	49	-	NC	69	-	NC
10	1/0	D6	30	0	ww	50	-	NC	70	-	NC
11	0	ADR	31	0	RW	51	1	RST	71		NC
12	-	GND	32	0	RB	52	-	GND	72	_	NC
13	- 1	NC	33	-	VDD	53	-	NC	73	-	VDD
14	1/0	D7	34	0	RF	54	1	DIN	74	-	NC
15	1/0	D8	35	0	ER	55	- 1	NC	75	-	NC
16	1/0	.D9	36	-	NC	56	0	DO	76	-	NC
17	1/0	D10	37	-	NC	57	-	NC	77	-	NC
18	1/0	D11	38	-	NC	58	1	MODE	78	-	NC
19	1/0	D12	39	-	NC	59	-	NC	79	-	NC
20	1/0	D13	40	-	NC	60	-	NC	80	-	NC

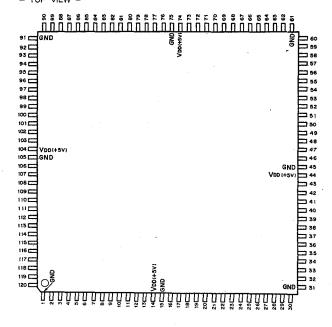




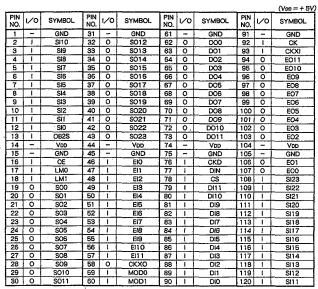
OUTPUT
ADR : SERIAL ADDRESS
CKDO1,
CKDO2 : SERIAL INTERFACE CLOCK
DO : SERIAL DATA
ER: READ ERROR (HIGH : ERROR)
RB : READ BUSY (HIGH : BUSY)
RF : READ ERROR FE FULL OUT
LOW : READ REGISTERS ARE FULL
LOW : READ REGISTERS ARE FULL
UN: READ REGISTERS ARE FULL
UN: READ BUFFER FULL OUT
WHIGH : READ DATA ARE RECEIVING AT DIN TERMINAL
WF : WRITE BUFFER FULL OUT
HIGH: WRITE REGISTERS ARE EMPTY
WW : WRITE REGISTERS ARE EMPTY
WW : WRITE REGISTERS ARE EMPTY
WW : WRITE WINDOW
HIGH: SERIAL DATA OR ADDRESS ARE SENDING FROM D OUT
OR ADR (SERIAL ADDRESS) TERMINALS

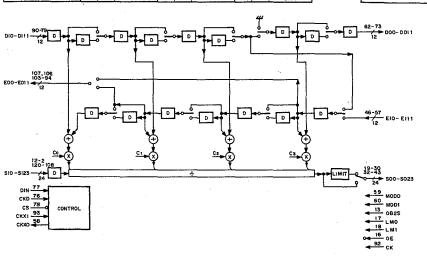


CXD8055 (SONY) FLAT PACKAGE C-MOS DIGITAL FILTER - TOP VIEW -



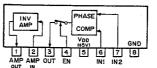
79	DIII	DO11	73
80	D110	0010	
B 1	15.15		71
82	610	009	70
83	DIS	800	60
84	017	D07	
	D17 D16 D15	D06	68
85	D15	005	67
86	D14	D04	66
87	D 13	D03	65
88		002	64
89	0.13	001	63
90	DIO	. 000	62
	10.10	. 500	
57	L		94
56	EIII	EOI1	95
55	E1 10	EOIO	96
54	E(10	E09	97
53	E18 E17 E16	E08	98
	É17	E07	99
52	E16	E06	100
51	E15	E05	
50	E14	E04	101
49	E13	E03	102
48	E12	E02	103
47	EI1	E01	106
46	EIO	E00	107
	,		l
108	S123	5023 5022	43
109		3023	42
110	5122		41
	S 12 1	5021	40
112	\$120 \$119	5020	39
112	\$119	S 0 1 9	38
113	\$118	S018	_
114	\$117	5017	37
115	S116	\$016	36
116	5115	8015	35
117	5114	5014	34
118	S114 S113	50 13	33
119	\$112	5012	32
120	S112 S111	8011	30
	\$110	8010	29
	819	809	28
4	\$18	soe	27
	517	so7	26
6	SIG		25
	S15	s06	24
8	S15	\$05	23
9		504	22
	\$13	\$03	21
11	S12	502	20
12	511	501	19
	StO	soo	
0.2			
60	CKX 1	скхо	58
	MODI		
59	MODO		
13	0825		
78			
	cs		
76	DIN		
92	>CKD		
92	>	ĺ	
16 18	0E		
16	LMI	į	
17	LM1 LM0		İ



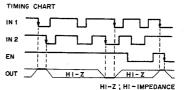


CX23065A (SONY)

N-MOS PHASE COMPARATOR WITH INVERSION AMPLIFIER - PRINTED SIDE VIEW -

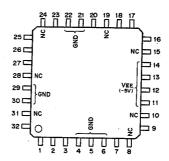


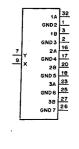
1. '	EN	OUT
Г	1	ACTIVE
Γ	0	HIGH IMPEDANCE



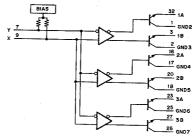
CXA1389AQ (SONY)

CABLE DRIVER - TOP VIEW -





	_		_								
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1		GND2	9	1	Х	17	_	GND4	25	_	GND6
2	-	GND3	10	-	NC	18	-	GND5	26		GND7
3	0	1B	11	-	VEE	19	-	NC	27	0	3B
4	-	GND	12	-	VEE	20	0	2B	28		NC.
5	_	GND	13	-	VEE	21	_	GND	29		GND
6	_ :	GND	14	- 1	VEE	22	_	GND	30	_	GND
7	1	Υ	15		NÇ	23	0	ЗА	31		NC
8	-]	NC	16	0	2A	24		NC .	32	0	1A



INPUT CK CKD CKXI CS DIO -- DI11 DIN EIO -- EI11 LMO, LM1

SYSTEM CLOCK
SERIAL INTERFACE CLOCK
SWITCHING TIMING PULSE
CHIP SELECT (LOW: ENABLE)
12 BIT DIGITAL IN
SERIAL COEFFICIENT DATA IN (Co - Cs)
12 BIT EXPANSION SHIFT REGISTER IN
PROGRAMABLE LIMITER SELECT 0, 1

	LM3	LMO I	SO OUTPUT
	0	0	21 BIT
İ	0	1	22 BIT
	1	0	23 BIT
1	1	1	24 BIT

0; LOW LEVEL 1; HIGH LEVEL

MODO, MOD1 ; MODE SELECT 0, 1

MOD1	MODO	FUNCTION MODE
1	1	SYMMETRICAL 7 TAP DIGITAL FILTER
0	1 -	ASYMMETRICAL 4 TAP DIGITAL FILTER
1	0	SYMMETRICAL 13 TAP DIGITAL FILTER
0	0	ASYMMETRICAL 7 TAP DIGITAL FILTER

0; LOW LEVEL 1; HIGH LEVEL

; SO OUTPUT ENABLE IN (LOW: ENABLE) : INPUT/OUTPUT FORMAT SELECT (AVAILABLE FOR DI, DO, EI, EO, SI, SO)

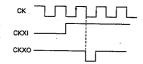
0828	I/O FORMAT
0	STRAIGHT BINARY
1	2'S COMPLEMENT

SIO - SI23

; 24 BIT EXPANSION ACCUMULATED

OUTPUT CKXO

; COEFFCIENT DATA SWITCHING PULSE (DIFFERENCIAL OUTPUT FOR EXPANSION MODE)



DO0 - DO11 ; 12 BIT DIGITAL OUT

MOD0	DO DELAY AGAINST	Di
0	11 CLOCK	
1	7 CLOCK	

0; LOW LEVEL 1; HIGH LEVEL

EO0 - EO11 ; 12 BIT EXPANSION SHIFT REGISTER OUT

MOD0	EO DELAY AGAINST EI
0	5 CLOCK
1	1 CLOCK

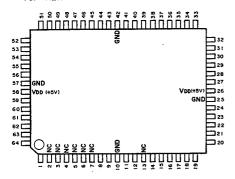
0; LOW LEVEL 1; HIGH LEVEL

SOO - SO23 ; 24 BIT FILTER OUT

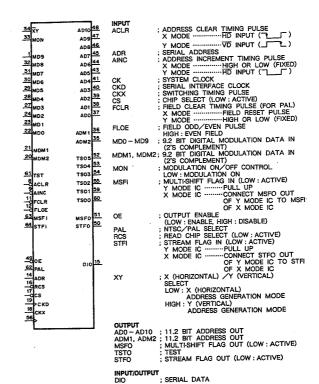
MOD1	MODO	SO DELAY AGAINST DI	AGAINST SI
0	0	10 CLOCK	
0	1	7 CLOCK	3 CLOCK
1	0	11 CLOCK	
1	1	8 CLOCK	4 CLOCK

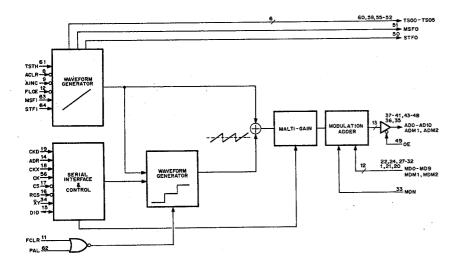
0: LOW LEVEL 1: HIGH LEVEL

CXD8059 (SONY) FLAT PACKAGE C-MOS XY ADDRESS GENERATOR - TOP VIEW -

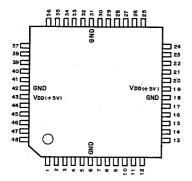


										(v	'00 = + 5V)
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PiN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	1	MD9	17	_	cs	33	1	MON	49		OE
2	-	NC	18	1	CKX	34	1	XY	50	0	STFO
3	-	NC	19	1	CKD	35	0	ADM2	51	0	MSFO
4	-	NC	20	T	MDM2	36	0	ADM1	52	0	TSO5
5	-	NC	21	1	MDM1	37	0	AD0	53	0	TSO4
6	-	NC	22	1	MDO	38	0	AD1	54	0	TSO3
7	-	NC	23	1	MD1	39	0	AD2	55	0	TSO2
8	1	ACLR	24		MD2	40	0	AD3	56	1	CK
9	1	AINC	25		GND	41	0	AD4	57	-	GND
10	-	GND	26		VDD	42	-	GND	58	<u> </u>	VDD
11	1	FCLR	27	1	MD3	43	0	AD5	59	0	TSO1
12	1	FLOE	28	1	MD4	44	0	AD6	60	0	TS00
13	-	NC	29	1	MD5	45	0	AD7	61	1	TST
14	T	ADR	30	i	MD6	46	0	AD8	62	1	PAL
15	1/0	D10	31	1	MD7	47	0	AD9	63	1	MSFI
16	1	RCS	32	1	MD8	48	0	AD10	64	1	STFI





CXD8058Q (SONY) FLAT PACKAGE C-MOS MEMORY CONTROL - TOP_VIEW -



PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	1/0	D7/PA4	13	1/0	C4/PD4	25	0	B2	37	-	CK1
2	1/0	D6/PA3	14	1/0	C3/PD3	26	0	B1/PLS3	38		CK2
3	1/0	D5/PA2	15	1/0	C2/PD2	27	1/0	BO/EN3	39		CK3
4	1/0	D4/PA1	16	1/0	C1/PD1	28	1/0	A7/LD3	40	1	CK4
5	1/0	D3/PDB	17	1/0	CO/PDO	29	0	A6/PLS2	41	1	CKX
6	-	GND	18	L=	GND	30	1/0	A5/EN2	42	- 1	GND
7	1/0	D2/PDA	19	~	VDD	31		GND	43	-	VDD
8	1/0	D1/PD9	20	1/0	B7/TEST	32	1/0	A4/LD2	44	1	RST
9	<u>'</u>	DO/PD8	21	0	B6/PLS4	33	0	A3/PLS1	45	1	CKD
10	2	C7/PD7	22	1/0	B5/EN4	34	1/0	A2/EN1	46	1/0	DIO
11	2	C6/PD6	23	0	B4/LD4	35	1/0	A1/LD1	47	1	ADR
12	0	C5/PD5	24	0	B3	36	0	AO	48	T	CS

MODE*	FUNCTION
MODE 0	4 CHANNEL (CH1~CH4) CYCLIC PULSE GENERATORS
MODE 1	2 CHANNEL (CH1 AND CH2) CYCLIC PULSE GENERATORS 1 CHANNEL (CH3) CLOCK FREQUENCY COUNTER
MODE 2	2 CHANNEL (CH1 AND CH2) CYCLIC PULSE GENERATORS 2 CHANNEL (CHC AND CHD) 8 BIT SERIAL TO PARALLEL CONVERTOR
MODE 3	4 CHANNEL (CHA~CHD) 8 BIT SERIAL TO PARALLEL CONVERTOR

^{*} THESE 4 MODE CONTROLS ARE DETERMINED AT MODE REGISTER.

< COMMON TERMINALS FOR ALL FUNCTION >

INPUT
ADR : SERIAL ADDRESS
CKD : SERIAL INTERFACE CLOCK
CKX : SWITCHING TIMING PULSE
CS : CHIP SELECT (LOW : ACTIVE) .
RST : RESET PULSE (LOW : RESET REGISTERS)

PUT/OUTPUT

; SERIAL DATA (MODE CONTROL DATA, REGISTER DATA IN CH3 CLOCK FREQUENCY COUNTER DATA OUT)

<TERMINALS FOR CYCLIC PULSE GENERATORS>

INPUT
CK! - CK4 : SYSTEM CLOCK FOR 12 BIT COUNTER OF CH1 - CH4
EN1 - EN4 : ENABLE IN FOR 12 BIT COUNTER OF CH1 - CH4
LD1 - LD4 : LOAD IN FOR 12 BIT COUNTER OF CH1 - CH4

OUTPUT PLS1 - PLS4; PULSE OUT (CARRY OUTPUT) OF CH1 - CH4 < TERMINALS FOR 8 BIT SERIAL TO PARALLEL CONVERTORS >

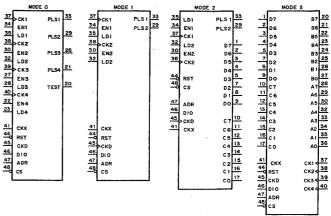
 OUTBUT

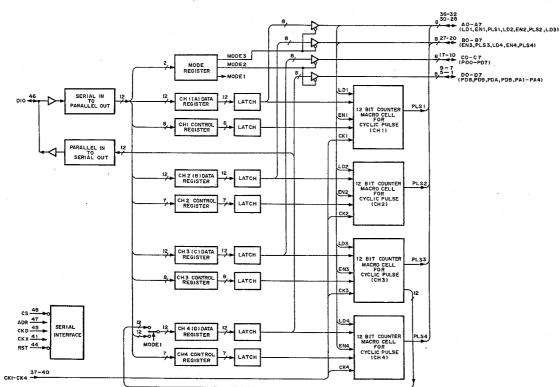
 A7 - A0
 : 8 BIT PARALLEL DATA OUT OF CHA

 B7 - B0
 : 8 BIT PARALLEL DATA OUT OF CHB

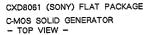
 C7 - C0
 : 8 BIT PARALLEL DATA OUT OF CHD

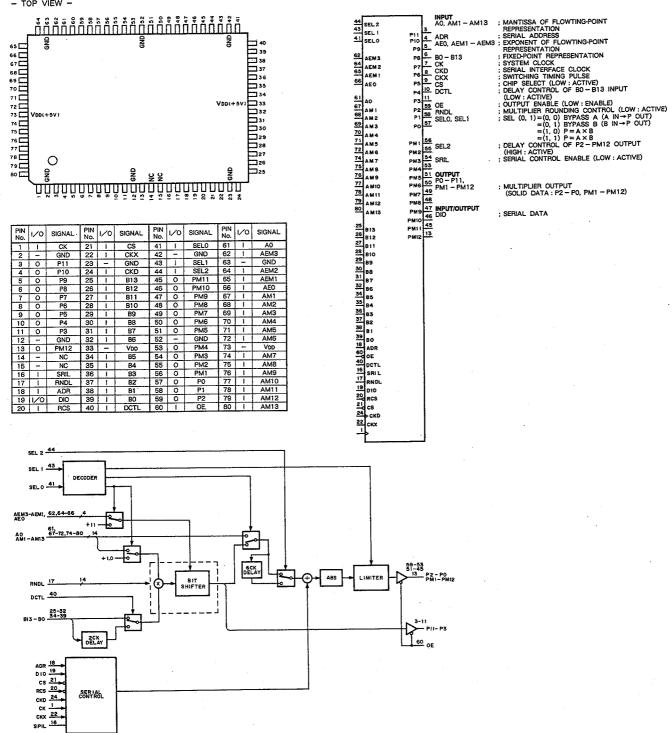
 D7 - D0
 : 8 BIT PARALLEL DATA OUT OF CHD



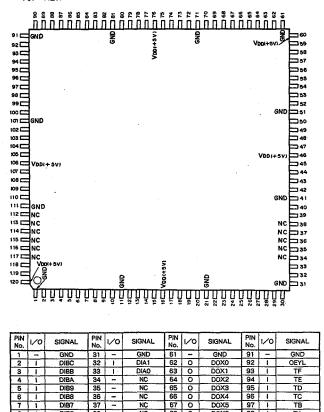


DVS-6000/6000C





CXD8065 (SONY) FLAT PACKAGE C-MOS KEY PROCESSOR - TOP VIEW -

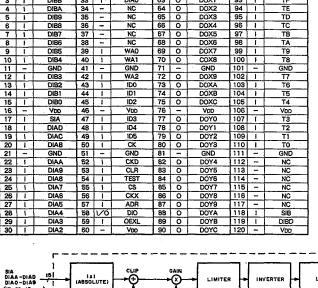


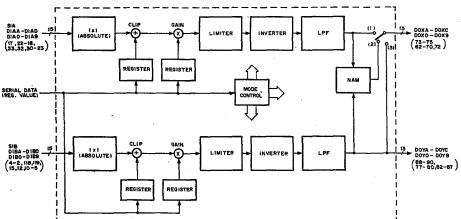
SIB SIB				
DIBS	118	C.18		1
2 D ISC DOYS 99 99 99 99 99 99 99 99 99 99 99 99 99	119			92
Dies			OEYL	<u> </u>
1 1 1 1 1 1 1 1 1 1		DIBC	DOYC	-
-2 DIBB	_3	DIBB	DOYB	88
-2 DIBB	_4	DIBA	DOYA	88
7 D187 D077 98 99 100 100 100 100 100 100 100 100 100	_ 5	0.00	DAVE	87
7 D187 D077 98 99 100 100 100 100 100 100 100 100 100	6	0169	5015	86
DIBA	7	0188	DOYS	85
DIBA	-	DIB7	DOY7	94
DIBA	-	DIB6	DOY6	
DIBA	- 9	DIRA		83
12 1013 1007 100 101	_10	D104	DOY4	82
19 19 19 19 19 19 19 19	12	10184		80
14 DIS DOY 77 77 77 77 77 77 77	- 1	DIBS	0013	
17 SIA OEXL 19 19 10 10 10 17 18 18 10 10 10 17 18 18 18 18 18 18 18 18 18 18 18 18 18	_13	D182	DOY2	
17 SIA OEXL 19 19 10 10 10 17 18 18 10 10 10 17 18 18 18 18 18 18 18 18 18 18 18 18 18	14	DIBI	1400	_
17 SIA OEXL 19 19 19 10 10 10 19 11 19 10 10 10 10 10 11 11 11 11 11 11 11 11	15	0180	DOYO	77
23 DIAS DOX8 76 24 DIAS 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 DIAS D				
23 DIAS DOX8 76 24 DIAS 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 DIAS D	17		OFYL	
23 DIAS DOX8 76 24 DIAS 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 DIAS D	18.	SIA		75
23 DIAS DOX8 76 24 DIAS 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 DIAS D	19	DIAD	DOXC	74
23 DIAS DOX8 76 24 DIAS 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 DIAS D		DIAC	DOXE	
23 DIAS DOX8 76 24 DIAS 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 25 DIAS DOX 76 DIAS D	≥0	DIAB	DOXA	_
25 DIAS DOXA 27 DIAS DOXA 28 DIAS DOXA 29 DIAS DOXB 29 DIAS DOXB 30 DIAS 30 DIAS 30 DIAS 31 DIAS 32 DIAS 33 DIAS 33 DIAS 34 DIAS 35 DIAS 36 DIAS 37 DIAS 38 DIAS 39 DI	22	DIAA	DOX9	_
25 DIAS DOXA 27 DIAS DOXA 28 DIAS DOXA 29 DIAS DOXB 29 DIAS DOXB 30 DIAS 30 DIAS 30 DIAS 31 DIAS 32 DIAS 33 DIAS 33 DIAS 34 DIAS 35 DIAS 36 DIAS 37 DIAS 38 DIAS 39 DI	23	DIAG	DOXE	70
25 DIAS DOXA 27 DIAS DOXA 28 DIAS DOXA 29 DIAS DOXB 29 DIAS DOXB 30 DIAS 30 DIAS 30 DIAS 31 DIAS 32 DIAS 33 DIAS 33 DIAS 34 DIAS 35 DIAS 36 DIAS 37 DIAS 38 DIAS 39 DI	24		20,0	69
25 DIAS DOXA 27 DIAS DOXA 28 DIAS DOXA 28 DIAS DOXB 29 DIAS DOXB 30 DIAS 30 DIAS 30 DIAS 31 DIAS 32 DIAS 33 DIAS 33 DIAS 34 DIAS 35 DIAS 36 DIAS 37 DIAS 38 DIAS 39 DI	25	UIAS	DO X7	68
DIAS	_	ΩΙΔ7	DOX6	67
28 DIA4 DOXS 02 84 29 DIA3 DOXI 03 23 30 DIA2 DOXI 03 33 31 DIA1 DOXO 02 02 02 02 02 02 02 02 02 02 02 02 02	40	DIA6	DOX5	20
28 DIA4 DOXS 02 84 29 DIA3 DOXI 03 23 30 DIA2 DOXI 03 33 31 DIA1 DOXO 02 02 02 02 02 02 02 02 02 02 02 02 02	27	DIA5	DOX4	
Signature Sign	28	DIA4	DOX3	65
30 DIA2 DOXI 63 32 DIA1 DOXO 22 DOXI 63 32 DIA1 DOXO 23 DIA2 DOXI 63 49 ID5 49 ID5 49 ID5 41 ID3 45 ID3 45 ID3 45 ID0 55 RST 55 CKC 55 CKC 55 CKC 55 CKC 55 CKC 55 CKC 55 CKC 55 TAR 55 TT 55 TT 56 TT 57 TR 58 TT 59 TT 50	29	D.A.	DOVO	64
32 DIAN DOXO 2 33 DIAN 49 ID5 40 ID5 41 ID1 47 ID3 41 ID1 43 ID0 53 RST 52 CKX 55 CKX 55 CKX 56 CKX 57 ADR 52 CKX 59 TF 98 TA 99 TT 99 TT 98 TA 99 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT 90 TT	30	DIAS	OVAL	
33 DIAN 34 DIAN 35 DIAN 36 DIAN 37 DIAN 38 DIAN 39 DIAN 30 DIAN 31 DIAN 32 CKK 33 DIAN 34 DIAN 35 DIAN 35 DIAN 35 DIAN 35 DIAN 36 DIAN 37 DIAN 38 DIAN 39 DIAN 39 DIAN 39 DIAN 39 DIAN 39 DIAN 30 D	32	DIA2		
49 105 48 104 48 104 47 103 44 101 43 100 44 101 43 100 55 100 57 ARR 52 CKD 55 CKD 55 CKD 55 TF 55 TF 96 TT 96 TT 98 TA 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 90 TT	32	DIAI	DOXO	<u> </u>
49 105 48 104 48 104 47 103 44 101 43 100 44 101 43 100 55 100 57 ARR 52 CKD 55 CKD 55 CKD 55 TF 55 TF 96 TT 96 TT 98 TA 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 98 TT 99 TT 90 TT	23	DIAD		i
92 103 44 101 43 100 44 101 43 100 53 RST 58 DIO 52 CKX 55 CKX 55 CKX 55 CKX 55 CKX 50 TE 96 TC 97 TB 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 99 TT 98 TA 99 TT 90				
92 103 44 101 43 100 44 101 43 100 53 RST 58 DIO 52 CKX 55 CKX 55 CKX 55 CKX 55 CKX 50 TE 96 TC 97 TB 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 99 TT 98 TA 99 TT 90 49			i i	
92 103 44 101 43 100 44 101 43 100 53 RST 58 DIO 52 CKX 55 CKX 55 CKX 55 CKX 55 CKX 50 TE 96 TC 97 TB 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 99 TT 98 TA 99 TT 90 48	105		l	
45 102 444 101 43 100 53 RST 56 DIO 57 ADR 52 CKX 53 CS 50 51 TC 52 TC 53 TT 54 TT 55 TT 56 TT 57 TT 58 TT 59 TT 50 47			ŀ	
44 101 43 100 53 RST 59 100 53 RST 55 CKX 55 CKX 55 CCS 50 P4 TE 96 TC 98 TA 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 98 TA 99 TT 90 TT 9				1
43 100 53 RST 59 DIO 57 ADR 52 CKX 59 CKX 59 TF 59 TT 50 TT				i
43 100 53 RST 59 DIO 57 ADR 52 CKD 50 CKD 5	44	101		i
25 RST 55 DIO 57 ADR 52 CKD 56 CKX 55 CS 50 ST 7 F 8 ST 7 T 8 ST 7	43	100		1
57 ARR 52 CKX 53 CKX 53 CK 53 TF 94 TE 95 TO 96 TC 97 TB 98 TA 99 TA 99 TA 99 TA 98 TA 100 TF 101 TF 108 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T3 109 T4 109 T4 109 T4 109 T4 109 T4 109 T4 109 T4				1
57 ARR 52 CKX 53 CKX 53 CK 53 TF 94 TE 95 TO 96 TC 97 TB 98 TA 99 TA 99 TA 99 TA 98 TA 100 TF 101 TF 108 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T3 109 T4 109 T4 109 T4 109 T4 109 T4 109 T4 109 T4	53			l
57 ARR 52 CKX 53 CKX 53 CK 53 TF 94 TE 95 TO 96 TC 97 TB 98 TA 99 TA 99 TA 99 TA 98 TA 100 TF 101 TF 108 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T2 109 T3 109 T4 109 T4 109 T4 109 T4 109 T4 109 T4 109 T4		RST		Į.
ADR 52 CKX 56 CKX 57 CCS 94 TF 95 TO 97 TB 98 TA 99 TA 90 TA 9		Dio		
52 CKX 55 CKX 55 CKX 55 CKX 55 CKX 56 CKX 57 CKX 58 CKX 59 CKX 50	31	ADR		
56 CKX 50 CS 50 P 94 TF 99 TT 98 TA 99 TA 99 TA 99 TA 100 TB 100 TB 101 T5 103 T6 104 T5 107 T3 108 T2 109 T0 109 T1 110 T0 109 T1 110 T0 140 WI				1
550 CS 50 93 TF 94 TE 95 TO 96 TC 98 TA 98 TA 99 TA 98 TA 100 T8 103 T6 104 T5 108 T2 109 T1 100 T0 109 T1 100 T0	56			
93 TF 94 TE 95 TO 96 TO 97 TO 98 TA 99 T7 100 T8 100 T8 103 T7 104 T5 105 T4 106 T5 107 T4 108 T2 109 T2	55			
9-3 TF 9-4 TE 9-5 TO 9-5 TO 9-6 TO 9-7 TB 9-6 TA 9-9 TP 9-9 TP 9-9 TP 9-9 TP 10-1 TF 1	50	CS		l
93 TF 94 TE 95 TO 96 TC 98 TA 98 TA 99 TA 99 TA 99 TA 99 TA 100 TS 100 TS 101 TS 103 TA 109 TS 109 TA 109 TS 109 TA 109 TS 109 TA 109 TS 109 TA 109 TS 109 T		P		l
96 TC 97 TB 98 TA 99 TA 99 TA 99 TA 100 TB 100 TB 100 TF 101 TA 107 TA 108 TA 109 TA 1	97	L		l
96 TC 97 TB 98 TA 99 TA 99 TA 99 TA 100 TB 100 TB 100 TF 101 TA 107 TA 108 TA 109 TA 1	33	TF		!
96 TC 97 TB 98 TA 99 TA 99 TA 99 TA 100 TB 100 TB 100 TF 101 TA 107 TA 108 TA 109 TA 1	94	TE		i
95 TC 98 TA 99 TA 99 TA 100 T8 102 T7 104 T5 105 T4 107 T3 108 T2 109 T1 101 T1 54 TEST		TD		l
97 1 TB 98 1 TA 99 1 T9 90 1 T8 100 1 T8 100 1 T6 100 1 T5 100 1 T5 100 1 T4 100 1 T2 100 1 T0 100 1 T	96			l
00 15 00 17 00 17 00 17 00 17 00 17 00 17 00 17 00 17 10	97			l
00 15 00 17 00 17 00 17 00 17 00 17 00 17 00 17 00 17 10	98	TB		ı
00 15 00 17 00 17 00 17 00 17 00 17 00 17 00 17 00 17 10	20	TA		١.
104 T5 105 T4 107 T3 108 T2 109 T1 110 T0 54 TEST 39 W0	23	T9		ļ .
104 T5 105 T4 107 T3 108 T2 109 T1 110 T0 54 TEST 39 W0	100	TR		
104 T5 105 T4 107 T3 108 T2 109 T1 110 T0 54 TEST 39 W0	102	T7		l
104 175 105 174 107 173 108 172 109 171 110 170 54 17651 39 WO 40 WI				
107 T4 T3 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5	104			Ī
107 T4 T3 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5 T5	105	12		l
108 T2 109 T1 110 T0 54 TEST 39 W0	122	T4		l
109 T2 109 T1 10 T0 64 TEST 39 W0 40 W1		T3		
109 T1 110 T0 54 TEST 39 W0 40 W1				١
10 TO 54 TEST 39 WO 40 WI				l
39 WO		l		•
39 40 W1	54			l
40 W1	30	TEST		1
40 W1				
42 W2		WI		l
	42	W2		1
		L		j

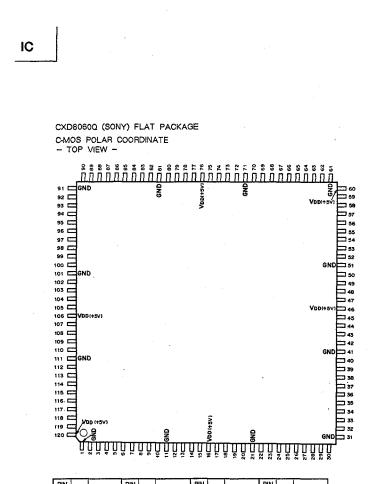
INPUT
ADR
ADR
SYSTEM CLOCK
CK
CK
SYSTEM CLOCK
CKD
SERIAL INTERFACE CLOCK
CKX
SWITCHING TIMING PULSE
CS
DAA - DIAD,
DIAO - DIAD,
DIAO - DIAD,
DIAO - DIBO,
DIBO - DIBO,
DIBO - DIBO,
DIBO - DIBO,
SST
RESET
IDO - IDS
IC ADDRESS SELECT
SIA, SIB
SIGN BIT OF "A". "B" IN
OEXL, OFYL
TA - TF,
TO - T9
TEST TERMINAL
WO - W2
MODE SELECT FOR TEST

OUTPUT
DOXA - DOXC,
DOXO - DOXOS,
DOXA - DOXC,
DOXO - DOYS,
DOYA - DOYC,
DOYO - DOYO DATA Y OUT

INPUT/OUTPUT
DIO
SERIAL DATA







PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	-	GND	31	-	GND	61	-	GND	91	- 1	GND
2	1	Y1	32	0	P4	62	1/0	TIOO	92	1	XC
3		Y0	33	0	P5	63	1/0	TIO1	93	1	XB
4		OB2S	34	0	P6	64	1/0	TIO2	94		XA
5		CKX	35	0	P7	65	1/0	TIO3	95		X9
6	1	RST	36	0	P8	66	1/0	T104	96	1	X8
7	1	ADR	37	0	P9	67	1/0	T105	97	, i	X7
8	1/0	DIO	38	0	PA	68	1/0	TIO6	98	_	X6
9	1	cs	39	0	PB	69	1/0	TIO7	99		X5
10		CKD	40	0	- PC	70	1/0	TIO8	100	ı	X4
11		GND	41		GND	71	-	GND	101	1	GND
12	1	TST0	42	0	PD	72	1/0	TIO9	102	_	X3
13		TST1	43	0	ML	73	1/0	TIOA	103	_	X2
14	1	TST2	44	0	MO	74	0	TIOB	104	_	X1
15	1	TST3	45	0	М1	75	2	TIOC	105	_	Х0
16		VDD	46	-	VDD	76		ODV	106	-	VDD
17	1	RCL0	47	0	M2	77	1/0	TIOD	107		CK
18		RCL1	48	0	M3	78	9	TIOE	108	1	YC
19	11.	RDP0	49	0	M4	79	1/0	TIOF	109	-	YB
20	1	RDP1	50	0	М5	80	1/0	TIOG	110		YA
21	-	GND	51	-	GND	81	-	GND	111	-	GND
22	1	OEP	52	Q	M6	82	₹	TIOH	112	1	Y9
23		RDM	53	0	M7	83	0	TIOI	113		Y8
24	1	MDL	54	0	M8	84	1/0	TIOJ	114	1	Y7
25	T	OEM	55	0	М9	85	0	TIOK	115	1	Y6
26	0	PL.	56	0	MA	86	1/0	TIOL	116		Y5
27	0	P0	57	0	МВ	87	1/0	TIOM	117	. 1	Y4
28	0	P1	58	0	МС	88	0	TION	118		Y3
29	0	P2	59	0	MD	89	1/0	TIOO	119		Y2
30	0	P3	60	-	VDD	90	1/0	TIOP	120	-	Voo

INPUT ADR CK CKD CKX CS	; SYS ; SER ; SWI	IAL ADDRESS TEM CLOCK IAL INTERFACE CLOCK TCHING TIMING PULSE SELECT	
MDL		OUTPUT DELAY CONTROL	
	(HIC	SH : NORMAL, LOW : 2CK DELAY MODE)	
OB2S		SET BINARY/2'S COMPLEMENT SELECT	
A 4		H: 2'S COMPLEMENT, LOW: OFFSET BIN	ARY)
OEM		OUT ENABLE	
OEP		W : ENABLE) UT ENABLE	
OLI		W : ENABLE)	
RCLO		ISTER CLEAR	
	(HIG	SH : NORMAL, LOW : SET A AND B DATA	TO 0)
RCL1		ISTER CLEAR	
		SH: NORMAL, LOW: SET C DATA TO 0)	
ROM		INDING M OUT (HIGH)/DISCARD M OUT	
ROPO, RDP1		INDING POUT (HIGH)/DISCARD POUT	SELECT (LOW)
RST		ET PULSE	1.40DE)
TSTO - TST3		W:SET DIO TERMINAL TO FIXED INPUT CTION MODE SELECT	MODE)
TST3 TST2 TST1	TSTO		TIO TERMINAL I/C
1 1	0	/ · · · · · · ·	OUTPUT : (X - A)2 +

310	- TST		FUN	CTION MODE SELECT	
TST3	TST2	TST1	TSTO	FUNCTION MODE	TIO TERMINAL I/O STATUS
	1		0	/Y-8\	OUTPUT : (X - A)2 + (Y - B)2
1 1	1	1	·	$M = \sqrt{(X - A)^2 + (Y - B)^2}$, $P = tan^{-1} \left(\frac{Y - B}{X - A}\right) + C$	OUTPUT: X - A1 / Y - B1
		L	L .	A, B, C : SERIAL DATA	Y-B / X-A
0	0	0	×	$M = \sqrt{(X - A)^2 + (Y - B)^2}$, $P = ten^{-1} \left(\frac{Y - B}{X - A}\right) + C$ A, B: TIO INPUT, C: SERIAL DATA	INPUT (A AND B DATA)
0	1	1	×	$M = \sqrt{(X - A)^2 + (Y - B)^2}, P = \tan^{-1} \left(\frac{Y - B}{X - A}\right) + C$ A, B: SERIAL DATA, C: TIO INPUT	INPUT (C DATA)
0	0	1	×	M=√R R:TIO INPUT	INPUT (R)
1	1	0	×	M = tan-1 D D: TIO INPUT	INPUT (D)

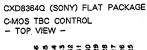
X; DON'T CARE

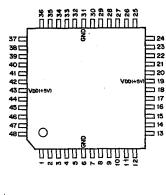
X0 - X9, XA - XC; 11.2 BIT DIGITAL IN Y0 - Y9, YA - YC; 11.2 BIT DIGITAL IN

OUTPUT
ML, MO - M9, MA - MD ; 11.4 BIT DIGITAL OUT (RADIUS DATA)
PL, PO - P9, PA - PD ; 15 BIT DIGITAL OUT (ANGLE DATA)

INPUT/OUTPUT
DIO : SERIAL DATA
TIOO - TIO9, TIOA - TIOP; TEST

105-102 100-92 X0-X9 XA-XC 11.2 LATCH 3	LIMIT IX	24 24 24 24 24	26 SORT 15	RND LATCH	62-70 77770 82-90 100-7100-7109 26-7100-7109 26-7100-7109 43-45 42-709 M., MO-M9 114-20 OEM 24-7100 M. MO-M9 114-20 OEM 24-MDL
ADR 7 DIO 9 CS 90 C SIF CKD 0 SIF CKD 0 C SIF CKD 0 C SIF CKD 0 C SIF CKD 0 C SIF CKD 0 C SIF	PEG 2 (LSB) B OATAL SIF	Y ²	ROM 12	15 15 0 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26-30. 32-40,42 32-40,42 55-22-02P 25-22-02P
RCL0 !!———————————————————————————————————	CONTROL	12		PEG 3 (C DATA)	19 RDP0 20 RDP1



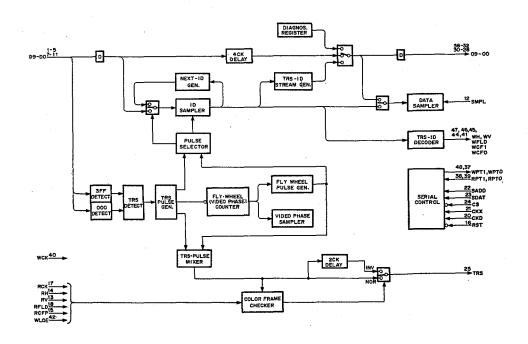




1 2 3 4 5 7 B 9 10 11	D9 D8 D7 D6 D5 D4 D3 D2 D1	09 08 07 06 05 04 03 02 01	36 35 34 33 32 39 29 28 27 26
40 15 14 13 16 12 17 21 20	RPT1 RPT0 WLOW WCK RCFP RH RV RST SMPL RCK CKX >CKD SDAT SADD CS RFLD	WCF1 WCF0 WFLD WV WH WPT1	44 41 45 46 47 48 37

PD 42 PC 39 PB 36 PP 37 PP 36 PP 35 PS 33 P4 32 P3 30 P2 29 P1 27 P0 27 PL 26

PIN No.	1/0	SIGNAL	PIN No.	S	SIGNAL
1		D9	25	0	TRS
2	1	D8	26	0	00
3		. D7	27	0	01
4		D6	28	0	02
5	1	D5	29	0	03
6	-	GND	30	0	04
7		D4	31	_	GND
8	1	D3	32	0	05
9	1	D2	33	0	06
10	1	D1	34	0	07
11	-	D0	35	Ō	08
12	-	SMPL	36	0	09
13	1	RV	37	0	WPTO
14	1	RH	38		RPT1
15	1	RCFP	39	1	RPT0
16	\neg	RST	40		WCK
17		RCK	41	0	WCF0
18	1	RFLD	42	T	WLOE
19	T -	Vod	43	-	Voo
20	1	CKD	44	0	WCF1
21	1	CKX	45	0	WFLD
22	T	SADD	46	0	wv
23	1/0	SDAT	47	0	WH
24	1	CS	48	0	WPT1



| <u>kazkas ka kas kee karkes kee 170 772 773 174 175 177 178 179 lee laalas laadas lae laa laalas laadas laa</u>

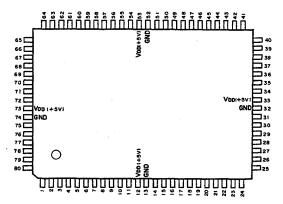
92 XC 93 XB 94 XA 95 X9 96 XB 97 X7 98 X6 100 X4 103 X2 104 X1 105 X0

108 YC
109 Y8
110 YA
112 Y9
113 Y8
114 Y7
115 Y6
116 Y5
117 Y4
118 Y3
119 Y2
2 Y1
3 Y0

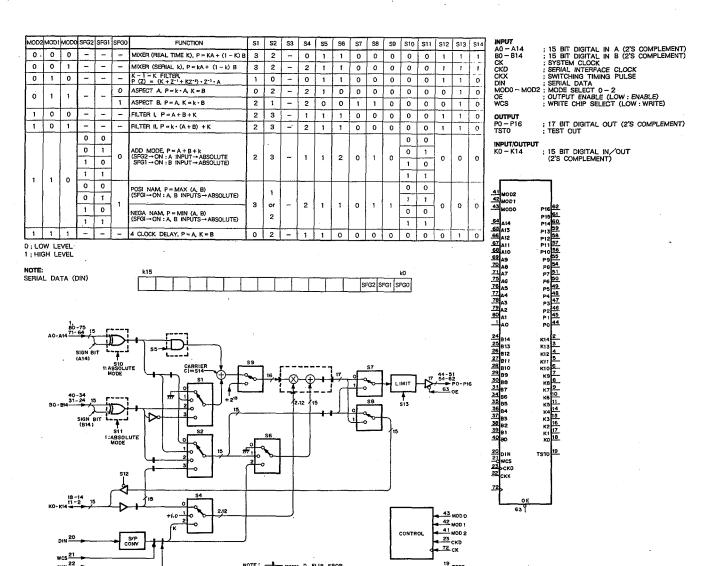
082S # DIO 7 ADR 9 CS 10 > CKD 5 CKX - ORST

23 17 18 19 20 12 13 14 15 24

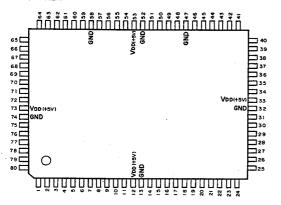
CXD8062Q (SONY) FLAT PACKAGE C-MOS WIPE MIXER - TOP VIEW -



PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	-	AO	21		wcs	41		MOD2	61	0	P15
2	1/0	K14	22	1	CKX	42		MOD1	62	0	P16
3	0	K13	23		CKD	43		MODO	63		OE.
4	10	K12	24		814	44	1	PO	64	1	A14
5	1/0	K11	25	1	B13	45		P1	65		A13
6	1/0	K10	26		B12	46		P2	66		A12
7	10	K9	27		B11	47		P3	67	1	A11
8	9	K8	28	1	B10	48	-	P4	68	1	A10
9	2	K7	29	1	B9	49	1	P5	69_		A9
10	2	K6	30	1	B8	50	1	P6	70	1	A8
11	1/0	K5	31		B7	51		P7	71_		A7
12	-	VDD	32	-	GND	52	1	GND	72		CK
13	- 1	GND	33	-	Vob	53	-	VDD	73	-	VDD
14	1/0	K4	34		B6	54	0	P8	74	-	GND
15	1/0	K3	35	-	85	55	0	P9	75		A6
16	1/0	K2	36	1	B4	56	0	P10	76	1	A,5
17	1/0	K1	37	1	B3	57	0	P11	77	1	A4
18	1/0	KO	38	1	B2	58	0	P12	78		A3
19	0	TSTO	39	1	B1	59	0	P13	79	ı	A2
20	1	DIN	40	1	B0	60	0	P14	80	1	A1

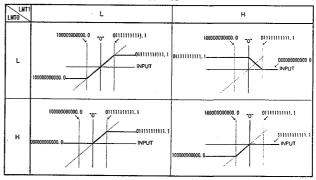


CXD8063Q (SONY) FLAT PACKAGE C-MOS MATRIX/ENCODER - TOP VIEW -



											$(V_{DD} = + 5V)$
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	1	Q12	21	1	17	41	1	Y2	61	1	LMTO
2		Q11	22	1	16	42	-	Y1	62	1	LMT1
3	1	Q10	23	1	15	43	1	P0	63	1	RND
4	_	Q9	24	_	14	44		P1	64	1	SMPL
5	. 1	Q8	25		13	45	_	P2	65	0	TSTO
6	.1.	Q7	26	_	12	46	· 1	P3	66	T	TST1
7	1	Q6	27	_	I1	47	-	GND	67	1	CKX
8		Q5	28	1	10	48	- 1	P4	68	1	RST
9	1	Q4	29	_	Y12	49		P5	69	1	CS
10	1	Q3	30	_	Y11	50	1	P6	70	1/0	DIO
11	1	. Q2	31	_	Y10	51	F	P7	71	1	ADR
12	-	VDD (+5V)	32	-	GND	52		GND	72	1	CKD
13		GND	33	-	Vpp (+5V)	53	-	VDD (+5V)	73	-	Von (+5V)
14		Q1	34	1	Y9	54	1	P8	74	-	GND
15	-	00	35	f	Y8	55		P9	75	- 1	CK
16	1	112	36	1	Y7	56	1	P10	76	- 1	SC
17	Ī	111	37		Y6	57	Ī	P11	77	1	LALT
18		110	38	1	Y5	58		GND	78	ı	MOD0
19		19	39	1	Y4	59		P12	79		MOD1
20		18	40	-1	Y3	60		OE	80	- F	MOD2

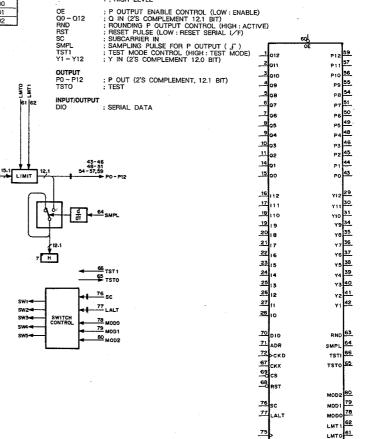
INPUT
ADR
CK
CKD
CKX
CS
IO - I12
LALT



MODO - MOD2 ; MODE SELECT

MOD2	MOD1	MODO	MODE AND FUNCTION
0	. 0	0	MATRIX, $P=(Y+a)\times d+(I+b)\times e+(Q+C)\times f+g$
0	0	1	NOT USED
0	1	0	ROTATION I, $P=(Y+a)\times d+(I+b)\times e+(Q+C)\times (-f)+g$
0	1	1	ROTATION II, $P=(Y+a)\times d+(I+C)\times f+(Q+b)\times e+q$
1	0	0	NOT USED
_1	0	1	NOT USED
1	1	0	ENCODER (NTSC)
1	11	1	ENCODER (PAL)
			a, b, c,g: REGISTER DATA FROM SERIAL DA

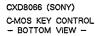
0; LOW LEVEL 1; HIGH LEVEL

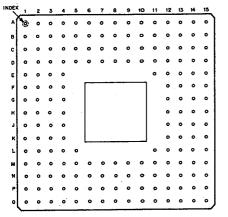


TO REGISTERS

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SERIAL DATA IREG VALUE, SW, LNV/NONINV CONTOL}	
TOO - TOII 12 INV SONINV SONINV	12/LKIO-LKIII
TNO - TNI 1 - 122 O' - S INV NONENV NONENV DENSITY 1	-0 112 LK20-LK211
BKIO-BKIII 12 NNV NONINV NONINV NONINV NONINV	
BK20-BK211 12 DENSITY 2 V S S S S S S S S S S S S S S S S S S	BBK 0-BBK 1
SK20-SK211 12 NONINV NONINV NONINV	— 112, врко-воки
	$V_{DD} = + 5V$

Pin												VUD — # 5V
12		1/0	SIGNAL		1/0	SIGNAL		1/0	SIGNAL.		1/0	SIGNAL
2A O LK210 2D O LK21 14H I TEST 3N I SK18 3A O LK211 3D O LK22 15H I CKD 4N I SK111 4A O LK12 4D I OELKI 1J I TOO 5N I BK14 5A O LK15 5D — GND 2J I TOI 6N I BK17 6A O LK16 5D — GND 2J I TOI 6N I BK17 6A O LK118 6D — GND 3J I TO2 7N I BK110 6A O LK117 7D — VDD 4J — VDD 8N I BK22 8A O BDK2 8D — GND 12J — VDD 9N I BK25 8A O BDK2 8D — GND 12J — VDD 9N I BK25 8A O BDK5 9D — VDD 12J — NC 10N I BK22 8A O BDK6 9D — VDD 12J — NC 10N I BK25 10A O BDK8 10D — GND 12J — NC 10N I BK25 11A O BDK8 10D — GND 14J I/O DIO 11N I BK21 11A O BDK11 11D I OEBBK 15J I ADR 12N I SK22 12A O BBK2 12D I OEBBK 1K I TO3 13N I SK25 13A O BBK5 13D O BAK0 2K I TO4 14N I SK21 14A O BBK11 15D O BAK0 2K I TO4 14N I SK21 15A O BBK11 15D O BAK0 2K I TO4 14N I SK21 15B O BK26 1E I TNO 12K — GND 1P I SK11 16B O LK26 1E I TNO 12K — GND 2P I SK14 17B O LK28 3E I TN2 14K O DP1 4P I SK11 18B O LK28 3E I TN2 14K O DP1 4P I SK11 18B O LK28 3E I TN2 14K O DP1 4P I SK11 18B O LK28 3E I TN2 14K O DP1 4P I SK11 18B O LK11 4E I OEBAK 1L I TO6 6P I BK13 18B O LK14 11E I OEBAK 1L I TO6 6P I BK13 18B O LK11 15E O BAK3 3L I TO6 6P I BK13 18B O LK11 15E O BAK3 1L I TO BK14 18B O BK11 15E O BAK3 1L I TO BK14 18B O BK3 13D O BK3 1 I TN2 14K O DP1 4P I SK11 18B O LK28 3E I TN2 14K O DP1 4P I SK11 18B O LK28 3E I TN1 15K — NC 3P I SK14 18B O BK11 15E O BAK3 1L I TO6 6P I BK13 18B O LK11 14E I OEBAK 1L I TO7 6P I BK24 18B O BDK1 14E O BAK3 1L TO7 6P I BK24 18B O BDK1 14E O BAK3 1L TO BK21 18B O BBK1 3F I TN3 11L — NC 11P I BK21 18B O BBK1 3F I TN4 12L — NC 12P I SK21 18B O BBK1 3F I TN5 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I BK24 18B O BBK1 3F I TN6 13L I CK 13P I	1A	0	LK29	10	0	LK20	13H	-	NC	2N	Т	SK15
3A O							14H		TEST	3N	1	SK18
4A							15H		CKD	4N	1	SK111
SA O					-		13		TOO	5N	1	BK14
6A O LK18 6D - GND 3J I TO2 7N I BK110 7A O LK111 7D - VDD 4J - VDD 8N I BK22 8A O BDK2 8D - GND 12J - VDD 9N I BK25 9A O BDK5 9D - VDD 13J - NC 10N I BK25 9A O BDK5 9D - VDD 13J - NC 10N I BK25 10A O BDK8 1DD - GND 14J I/O DIO 11N I BK28 11A O BDK1 11D I OEBDK 15J I ADR 12N I SK22 12A O BBK2 12D I OEBBK 1K I TO3 13N I SK25 13A O BBK5 13D O BAK0 2K I TO4 14N I SK28 14A O BBK6 14D O BAK1 3K I TO5 15N I SK21 14B O BBK1 11D O BAK1 3K I TO5 15N I SK21 15A O BBK1 11D O BAK1 3K I TO5 15N I SK21 15A O BBK1 1 DD O BAK2 4K - GND 1P I SK11 15A O BBK1 1 SD O BAK2 4K - GND 1P I SK11 15A O BK1 1 TO0 BAK2 1 TN I SK2 15B O LK28 3E I TN I SK - NC 3P I SK11 2B O LK28 3E I TN I SK - NC 3P I SK11 2B O LK28 1E I TN I SK - NC 3P I SK11 2B O LK1 1 E I OEBK 1L I TO6 6P I BK13 2B O LK1 1 E I OEBK 1L I TO6 6P I BK13 2B O LK1 1 E I OEBK 1L I TO7 7P I BK19 2B O BDK1 14E O BAK3 3L I TO6 6P I BK16 2B O BDK1 14E O BAK4 4L - GND 9P I BK2 1BB O BDK1 14E O BAK4 4L - GND 9P I BK2 1BB O BDK1 14E O BAK4 3L I TO7 7P I BK19 2B O BDK1 14E O BAK4 3L I TO7 8P I BK2 1BB O BDK1 14E O BAK5 3L I TO8 8P I BK2 1BB O BDK1 1F I TN3 11L - NC 11P I BK2 1BB O BDK1 1F I TN3 11L - NC 11P I BK2 1BB O BDK1 1F I TN3 11L - NC 11P I BK2 1BB O BDK1 1F I TN3 11L - NC 11P I BK2 1BB O BBK1 1F I TN5 15L I CK 1P I BK2 1BB O BBK4 4F - GND 14L I CO SK2 1BB O BBK4 4F - GND 14L I CO SK2 1BB O BBK4 4F - GND 14L I CO SK2 1BB O BBK4 4F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK4 1F - GND 15L I CK 1P I SK2 1BB O BBK6 15G O BAK5 3N I TO10 20 I SK3 1BB O BBK6 16G O BAK6 3N I TO10 20 I SK1 1BB O BBK6 16G O BAK7 1M I BL I CK 1P I SK2 1BB O BBK6 16G O BAK7 1M I TN5 15L I CK 1P I SK2 1BB O BBK6 16G O BAK7 1M I TN5 15L I CK 1P I SK2 1BB O BBK6 1BG O BAK7 1M I TN5 15L I CK 1P I SK2 1BB O BBK6 1BG O BAK7 1M I TN5 15L I CK 1P I SK2 1BB O BBK6 1BG O BAK7 1M I TN5 15L I CK 1P I S										6N		BK17
7A					-		3,1	\neg	TO2	7N	_	BK110
8A O BDK2 BD - GND 12J - VDD 9N I BK28 9A O BDK5 9D - VDD 13J - NC 10N I BK28 10A O BDK8 DD - GND 14J I/O DIO 11N I BK28 11A O BDK1 ID - GND 14J I/O DIO 11N I BK21 11A O BDK1 ID - GND 14J I/O DIO 11N I BK21 11A O BDK1 ID I OEBDK ISJ I ADR I2N I SK22 12A O BBK5 13D O BAK0 2K I TO3 13N I SK25 13A O BBK5 13D O BAK0 2K I TO4 14N I SK28 13A O BBK8 14D O BAK1 3K I TO5 15N I SK21 13A O BBK1 I ID O BAK1 3K I TO5 15N I SK21 13A O BBK1 I ID O BAK2 4K - GND 1P I SK11 13B O LK28 IE I TNO 12K - GND 2P I SK14 13B O LK28 3E I TN2 14K O DP1 4P I SK11 14B O LK11 4E I OELK2 15K O DP0 5P I BK13 14B O LK11 4E I OELK2 15K O DP0 5P I BK13 14B O LK11 1E I CEBAK IL I TO6 6P I BK16 15B O LK14 II I I CEBAK IL I TO6 6P I BK16 15B O LK11 1E O BAK3 3L I TO7 7P I BK19 15B O BDK1 15E O BAK3 3L I TO8 6P I BK21 16B O BDK1 15E O BAK3 3L I TO8 6P I BK21 17B O BDK1 15E O BAK5 5L NC 10P I BK21 17B O BDK1 15E O BAK5 5L NC 10P I BK21 17B O BDK1 15F O BAK5 5L NC 10P I BK21 17B O BDK1 15F O BAK6 5L NC 11P I BK21 17B O BDK1 15F O BAK6 3M I TO1 3Q I SK10 17B O BDK1 3F I TN5 13L I CK 13P I SK21 17B O BDK1 3F I TN5 13L I CK 13P I SK21 17B O BBK1 3F I TN5 13L I CK 13P I SK21 17B O BBK1 3F I TN5 13L I CK 13P I SK21 17B O BBK1 3F I TN5 13L I CK 13P I SK21 17B O BBK1 3F I TN5 3L I CK 3P I SK21 17B O BBK1 3F I TN5 3L I CK 3P I					-					8N	_	BK22
9A O BDK5 9D - Vob 13J - NC 10N I BK28 10A O BDK8 10D - GND 14J J/O DIO 11N I BK221 11A O BDK11 11D I OEBDK 15J I ADR 12N I SK22 12A O BBK2 12D I OEBBK IK I TO3 13N I SK22 13A O BBK8 14D O BAK1 3K I TO4 14N I SK28 13A O BBK8 14D O BAK2 2K I TO4 14N I SK28 13A O BBK11 15D O BAK2 2K I TO4 14N I SK28 13B O LK28 1E I TND 12K GND <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>- 1</td><td></td><td></td><td></td><td>BK25</td></td<>								- 1				BK25
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11A O								1/0		11N	1	BK211
12A O										12N	$\overline{}$	SK22
13A O								-				SK25
14A O BBK8 14D O BAK1 3K I TO5 15N I SK211 15A O BBK11 15D O BAK2 4K - GND 1P I SK11 15A O BBK11 15D O BAK2 4K - GND 2P I SK11 1B O LK26 E I I TNO 12K - GND 2P I SK11 2B O LK27 2E I I TN1 13K - NC 3P I SK17 3B O LK28 3E I I TN2 14K O DP1 4P I SK110 4B O LK14 1E I I OELK2 15K O DP0 5P I BK11 5B O LK14 11E I I OEBAK 1L I TO6 6P I BK18 6B O LK17 12E - GND 2L I TO7 7P I BK19 7B O LK101 13E O BAK4 3L I TO8 8P I BK21 8B O BDK1 14E O												
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188 O 188 Section												
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10					_					-		
C		_										
SK19 SK19 SK29							_					
C C C C C C C C C C												
SC O LK13 3G I TN8 SM - GND 6Q I BK15		_			<u> </u>			<u> </u>				
SC O LK16 4G - VDD 7M - VDD 7Q 1 BK18					<u> </u>			-				
TO O LK19 120 - Vob 8M - GND 8Q I BK11					+							
Section Sect											_	
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10C O BDK6 15G O BAK11 11M - GND 11Q I BK29 11C O BDK9 1H I TN9 12M I BK20 12Q I SK20 12C O BBK0 2H I TN10 13M - NC 13Q I SK23 13G O BBK3 3H I TN11 14M I RST 14Q I SK26 14C O BBK6 4H - GND 15M I CS 15Q I SK29	8C	0	BDK0					1-				
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				12H	1 -	GND	1N	TI	SK12			L

SE 3F 4F 5F 3G 4G 5G 4H 1D 2D 1E 4E 4D 3C 5H 55 4
L ADDRESS INPUT BK1 INPUT BK2 M CLOCK L INTERFACE PULSE HINING THINING PULSE SELECT (* *1) LE CONTROL OF BGA OUT (LOW: ENABLE) LE CONTROL OF BGB OUT (LOW: ENABLE) LE CONTROL OF BD OUT (LOW: ENABLE) LE CONTROL OF LOW OUT (LOW: ENABLE) LE CONTROL OF LOW OUT (LOW: ENABLE) INPUT SK1 INPUT SK2 MODE (HIGH: TEST) INPUT TN INPUT TN
L ADDRESS INPUT BK1 INPUT BK2 M CLOCK L INTERPACE PULSE HINING TIMING PULSE SELECT (* 1) E CONTROL OF BGA OUT (LOW : ENABLE) E CONTROL OF BGB OUT (LOW : ENABLE) E CONTROL OF BGB OUT (LOW : ENABLE) LE CONTROL OF LOW OUT (LOW : ENABLE) INPUT SK1 INPUT SK2 MODE (HIGH : TEST) INPUT INPUT TN

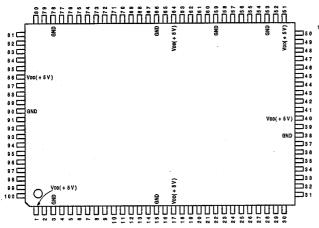
OUTPUT
BAKO - BAK11; DATA OUTPUT BAK
BBKO - BBK11; DATA OUTPUT BBK
BBKO - BDK11; DATA OUTPUT BBK
DPO - DP1 : TIMING PULSE (* 1)
LK10 - LK111: DATA OUTPUT LK1
LK20 - LK211: DATA OUTPUT LK2

NPUT/OUTPUT
DIO ; SERIAL DATA

NOTE: * 1 ······· TIMING-GENERATOR

CXD8338AQ(SONY)

C-MOS VIDEO OUTPUT PROCESSOR - TOP VIEW -



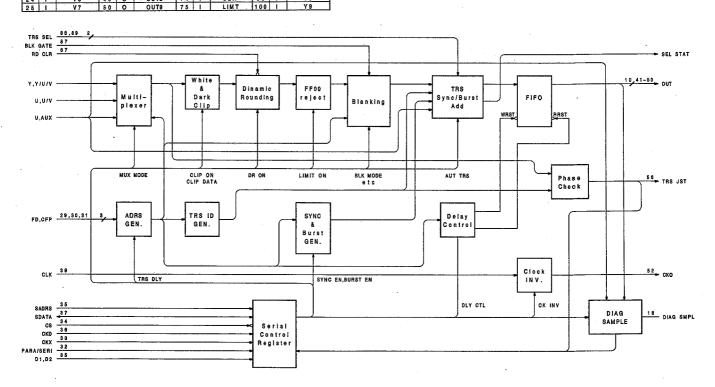
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PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	-	VDD	26	1	V 8	51	-	VDD	78	1	V BLK FIX
2	ı	EWRST	27	1	V 9	52	0	СКО	77	1	DBLK ABLK
3	-	GND	28		GND	53	-	GND	78	-	GND
4	ı	ERRST	29		HD	5 4	0	DATA PHS	79	<u> </u>	BLK MODEO
5	1	UO	30	ı	FD	5.5	0	DATA PHS	80	1	BLK MODE1
6	T	U1	81	1	CFP	5 6	0	TRS JST	81	1	BLK MODE2
7	Ti.	U2	32	1	PARA/SERI	5 7	0	SEL STAT	8 2	1	MUX MODEO
8	1	U3	33	1	CKX	58	0	SEL STAT	83		MUX MODE1
9	1	U4	3 4	T	CS.	5 9	•	GND	84		525/625
10	1	U5	3 5	ı J	SADRS	6.0	1	TEST MODEO	8.5		D1/D2
11	1	U 6	36	Ι.	CKD	61		TEST MODE1	86	-	VDD
12	T	U7	37	1/0	SDATA	62		TEST MODE2	87		BLK GATE
13	Ti.	U8	38		GND	63	L	TNCON	8.8		TRS SELO
14	1	U9 .	39	1	CLK	64	-	VDD	89	<u> </u>	TRS SEL1
15	T-	GND	40	-	VDD	6.5	0	TOUT	90	<u> </u>	GND
16	I	DIAG SMPL	41	0	OUTO	66	-	GND	91	1	Y 0
17	Γ-	VDD	4 2	0	OUT1	67	1	RDCLR	9 2	1	Y 1
18	1	V O	43	0	OUT2	68	1	DR ON	93		Y 2
19	1	V 1	44	0	OUT3	6 9	1	TRS EN	9 4	1	Y3
20	1	V 2	4.5	0	OUT4	70		BURST EN	95	1	Y 4
21	1	V3	46	0	OUT5	71		SYNC EN	96		Y 5
22	1	-V 4	47	0	OUT6	7 2		AUTO TRS	97		¥ 6
23	1	V 5	4.8	0	OUT7	73		CK INV	98		Y 7
24	1	V 6	49	0	OUTS	7.4	TT.	CLIP	99		Y 8

100 Y9
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89 Y7
97 Y8
89 Y4
89 Y4
99 Y3
92 Y1
13 U8
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38 OUT8 48 OUT7 47 OUT8 48 OUT7 47 OUT8 46 OUT4 44 OUT3 43 OUT2 42 OUT1 41 OUT0 52 BLK GATE BLK MODE0-2 BURST EN SERIAL INTERFACE SERIAL DATA CKD CK INV CONTROL REGISTER OPERATION TIMING CKO BLK-GATE EWRST ERRST CLK CPF CS D1/D2 SYSTEM CLOCK INPUT CKO 52 BLK-GATE 2 EWRST 4 ERRST 88 TRS-SEL0 89 TRS-SEL1 185 TRS JST 86 SYSTEM CFP INPUT(D2 MODEL) CHIP SELECTOR CONTROL REGISTER PARALLEL DATA INPUT DBLK ABLK DIAGSMPL DR ON ERRST ; INPUT READ RESET PULSE ;INPUT WRITE RESET PULSE ;SYSTEM FD INPUT(D1 MODEL) ;SYSTEM HD INPUT D1/D2 86 D1/D2 84 525/625 82 MUX-MODEO 83 MUX-MODEO 79 EWRST FD HD LIMIT BLK-MODEO MUX MODEO,1 PARA/SERI RDCLR BLK-MODE1 PARALLEL/SERIAL SWITCHING CLEAR PULSE
CONTROL REGISTER SIGNAL ADDRESS DBLK/ABLK V-BLK-FIX SADRS 75 74 78 SEL STAT SYNC EN TESTO-2 LIMIT CKINV AUTO-TRS TNCON :TEST POINT TRS EN TRS SELO,1 V BLK FIX SYNC-EN BURST-EN MANUAL MODE TRS MIX TRS-EN DR-ON 67 RDCLR 65 U0-U9,Y0-Y9,V0-V9 ;VIDEO SIGNAL OUTPUT TEST-MODE TEST-MODE CKO DATA PHS :CLOCK OUTPUT OUTPUT VIDEO DATA PHASE VIDEO SIGNAL OUTPUT TEST-MODE2 OUT0-9 PARA/SERI DIAGSMPL TOUT TEST POINT TRS JST INPUT/OUTPUT CONTROL REGISTER SERIAL DATA SDATA

BRANKING SIGNAL

INPUT

525/625 AUTO TRS



CXD8067 (SONY)
C-MOS MULTIPLIER
- BOTTOM VIEW -

	1	2	3	4	5	6.	7	8	9	10	11	12	13	14	15	16	17
A	ιζ;	٥	0	٥	٥	0	0	0	0	٥	0	٥	٥	0	٥	0	•
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С	٥	0	0	0	0	٥	٥	٥	٥	٥	0	0	٥	0	0	0	۰
D	٥	0	0	0	0	۰	0	٥	0	٥	0	0	0	0	0	٥	•
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G	0	0	٥	٥										٥	٥	0	•
н	٥	0	0	0										0	0	0	۰
J	٥	0	٥	0										0	ø	0	•
к	0	0	٥	0										0	0	0	0
L	٥	0	٥	0										0	0	0	0
м	٥	0	٥	٥										٥	٥	0	0
N	۰	0	0	٥										0	0	0	0
P	٥	٥	٥	٥	0	0	0	0	٥	٥	٥	٥	0	٥	0	0	0
۰	٥	0	0	o	0	0	٥	0	٥	0	0	0	0	0	0	0	۰
R	٥	٥	0	٥	٥	0	0	٥	٥	٥	0	٥	0	o	0	0	٥
s	٥	0	٥	٥	0	0	٥	0	0	. 0	٥	٥	0	٥	0	٥	0

													(V	00 = +5V
PIN			PIN			PIN		0101111	PIN		2121111	PIN	1/0	SIGNAL
No.	1/0	SIGNAL	No.	1/0	SIGNAL	No.	1/0	SIGNAL	No.	1/0	SIGNAL	No.	120	SIGNAL
1A		BAVO	3,1		DK111	7A	1	BBV0	12C	7	KF15	15L	1	PA3
1B	H	DK20	3K		PD2	7B	1	BBV1	12D	-	GND	15M	0	D011
1Ç		DK23	3L	Ť	PD5	7C	1	BBV2	12E	-	NC	15N	1	BAK9
1D	H	DK26	ЗМ	\vdash	PD9	7D	-	NC	12P	-	VDD	15P	i	BAK6
1E		DK29	3N		PD12	7P	1	PD14	12Q	1	BBKO	150	1	BBK9
1F		DK10	3P		LK22	70	1	LK19	12R	1	BBK1	15R	_	BBK10
1G	Ť	DK13	30	T	LK25	7R		LK110	125		BBK2	15S	_	BBK11
1H	Ť	DK16	3R	$\overline{}$	LK28	75		LK111	13A	1	KF16	16A	1	KF21
13		DK19	35		LK211	8A	Т	BBV3	13B	1	KF17	16B	1	KF24
1K	Ť	PD0	4A	T	BAV3	88	1	BBV4	13C	1	KF18	16C	1	KF27
1L	1	PD3	4B	1	BAV4	8C	1	BBV5	13D	_	aaV	16D	1	KF210
1M		PD7	4C	1	BAV5	8D	-	GND	13P	-	GND	16E	1	ADR
1N	Т	PD10	4D	-	NC	8P	-	VDD	130	_	BBK3	16F	1	RST
1P	1	LK20	4E	-	VDD	80	1	BDK0	13R	1	BBK4	16G	ı	SC
10	T	LK23	4F	_	GND	8R	1	BDK1	135	T	BBK5	16H	0	DQ1
1R	1	LK26	4G	=	GND	85	ı	BDK2	14A	ı	KF19	16J	0	DQ4
18		LK29	4H	-	VDD	9A		BBV6	148	1	KF110	16K	0	D06
2A	1	BAV1	4,1	-	GND	98	T	BBV7	14C	-	KF111	16L	0	D08
2B	T	DK21	4K	_	GND	9C	11	BBV8	14D	1	CS	16M	0	DO10
2C	1	DK24	4L	T	PD6	9D	-	GND	14E	-	GND	16N	1	BAK10
2D	11	DK27	4M	-	Von	9P	-	GND	14F	-	VDD	16P	-1	BAK7
2E	1	DK210	4N	-	GND	90	1.1	BDK3	14G		OE	16Q	_	BAK4
2F	1	DK11	4P		PD13	9R		BDK4	14H	-	GND	16R	1	BAK2
2G	1	DK14	40	T	LK10	98	1	BDK5	14J	-	GND	168	1	BAK0
2H	1	DK17	4R	T	LK11	10A	1	BBV9	14K	-	VDD	17A	T.	KF20
2J	1	DK110	48	1	LK12	10B	1	BBV10	14L	 	GND	17B	ī	KF23
2K	1	PD1	5A	T	BAV6	100	T	BBV11	14M	-	GND	17C	1	KF26
ZL.	T	PD4	5B	1	BAV7	10D	-	VDD	14N	-	VDD	17D	1	KF29
2M	1	PD8	5C	1	BAV8	10P	-	GND	14P	1	TEST	17E	1	CKD
2N	1	PD11	50	-	GND	100	1	BDK6	140	ı	BBK6	17F	1	CKX
2P	1	LK21	5P		VDD	10R	I	BDK7	14R	1	BBK7	17G	1	CK
20	1	LK24	50	T	LK13	108	1	BDK8	145	1	BBK8	17H	0	D00
2R	T	LK27	5R	- 1	LK14	11A	1	KF10	15A	1	KF22	17J	0	D03
28	1	LK210	58	1	LK15	11B	1	KF11	15B	1	KF25	17K	0	D05
ЗА	T	BAV2	6A	1	BAV9	110	1	KF12	15C	I	KF28	171	0	D07
3B	T	DK22	6B	1	BAV10	110	-	NC	15D	1	KF211	17M		D09
3C	1	DK25	6C	ı	BAV11	111	1	PD15	15E	1/0	DIO	17N	1	BAK11
3D	T	DK28	6D	-	VDD	110	1	BDK9	15F	1	SMPL	17P	1	BAK8
3E	T	DK211-	6P	1-	GND	11F	1	BDK10	15G	I	LALT	170	1	BAK5
3F	F	DK12	60	T	LK16	118	T	BDK11	15H	0	DO2	17R	1	BAK3
3G	1	DK15	6R	T	LK17	124	T	KF13	15J	1	PA1	179	1	BAK1
ЗН	T	DK18	6S	T	LK18	128	I	KF14	15K	1	PA2	I		

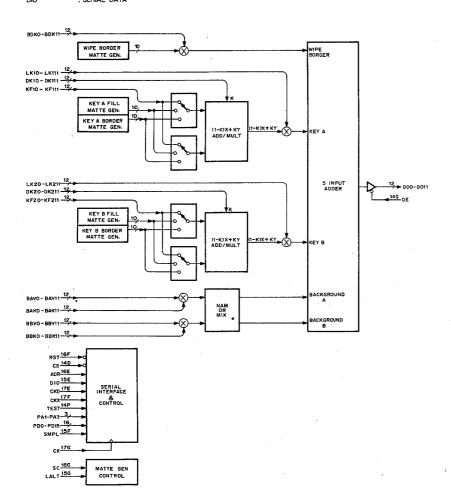
	18 28 38 1C 2C 3C 1 D 20 3D 1E 2E 3E	1F 2F 3F 1G 2G 3G 1H 2H 3H 1 J 2J 3J	
	DK21 DK22 DK23 DK23 DK24 DK25 DK26 DK26 DK26	DK10 DK11 DK12 DK13 DK15 DK15 DK16 DK17 DK19 DK19	
F20			LK20 LK21
F21			LK21
F22			LK22 LK23
23			LKZ3
24			
25			
26			LK26
27			LKEI
28			LKLU
29			LKZ
210			
F211			LK211
10			LK10
11 .			LK11
12			LK12
13			1 1/13
14			1 1 1 1 4
15			1 2 4 5
16			LK16
17			1 417
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19			
110			LK110
111			LK111
340			BDKO
V1			BDK1
1V1 1V2		•	BDK2
3V3			BDK3
3V3 3V4			BDK4
			BDK5
3V5			BDK6
V6			BDK7
9V7			BDKS
SVB			BDK9
3V9			BDK10
3V10			BDK11
3V11	*		
			вако
440			BBK1
W1			B8K2
V2 ·			BBK3
173			BBK4
V4			BRK 5
V5			BBK6
AV6			BBK7
W7		•	
W8			BBK8
4V9	•		BBK9
V10 V11			55K10
			BAKO
		4	BAKI
			BAK2
			BAKS
			BAK4
			BAK
			BAKI
		•	BAK1
	SC LALT SMPL TEST OE OE ADR DIO CKX RST	000 001 003 004 005 005 000 000 0010	
	S S S S S S S S S S S S S S S S S S S	000 000 000 000 000 000 000 000 000	

INPUT
ADR
BAKO - BAK11
BBKO - BBK11
BBKO - BBW11
BDKO - BDK11
CKC
CKX
CKX
CKX
CKX
CKX
CKX
CKY
KF10 - KF211
LALT : SERIAL ADDRESS

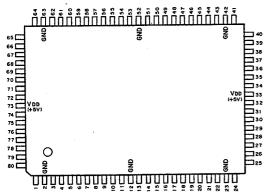
: 12 BIT DIGITAL BACKGROUND A KEY IN
:12 BIT DIGITAL BACKGROUND A VIDEO IN
:12 BIT DIGITAL BACKGROUND B KEY IN
:12 BIT DIGITAL BACKGROUND B KEY IN
:12 BIT DIGITAL BACKGROUND B VIDEO IN
:12 BIT DIGITAL WIPE BORDER KEY IN
:YSTEM CLOCK
:SERIAL INTERFACE CLOCK
:SERIAL INTERFACE CLOCK
:SWITCHING TIMING PULSE
:CHIP SELECT (LOW : ACTIVE)
:12 BIT DIGITAL DELAY KEY 1 IN
:12 BIT DIGITAL DELAY KEY 2 IN
:12 BIT DIGITAL DELAY KEY 2 IN
:12 BIT DIGITAL KEY 2 FILL VIDEO IN
:12 BIT DIGITAL KEY 1 FILL VIDEO IN
:12 BIT DIGITAL KEY 1 FILL VIDEO IN
:12 BIT DIGITAL KEY 0 FILL VIDEO IN
:14 BIT DIGITAL KEY 1 FILL VIDEO IN
:15 BIT DIGITAL KEY 1 FILL VIDEO IN
:16 BIT DIGITAL KEY 1 FILL VIDEO IN
:17 BIT DIGITAL LAST KEY 1 IN
:18 BIT DIGITAL LAST KEY 1 IN
:19 BIT DIGITAL LAST KEY 1 IN
:10 BIT DIGITAL LAST KEY 1 IN
:10 BIT DIGITAL LAST KEY 1 IN
:10 BIT DIGITAL LAST KEY 2 IN
:0 UTPUT ENABLE (LOW : ENABLE)
:PARALLEL ADDRESS IN FOR TEST OF SERIAL COMMUNICATION
:PARALLEL ADDRESS IN FOR TEST OF SERIAL COMMUNICATION
:PARALLEL ADDRESS IN FOR TEST OF SERIAL COMMUNICATION
:PARALLEL DATA IN FOR TEST OF SERIAL COMMUNICATION
:PRESET PULSE (LOW : RESET REGISTER)
:SUBCARRIER PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE
:SAMPLING PULSE LK10 - LK111 LK20 - LK211 OE P1 - P3 PD0 - PD15 RST SC SMPL TEST OUTPUT
DO0 - DO11 ; 12 BIT DIGITAL VIDEO OUT

INPUT/OUTPUT DIO

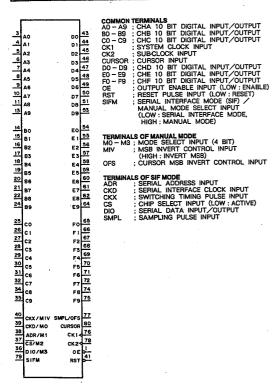
: SERIAL DATA

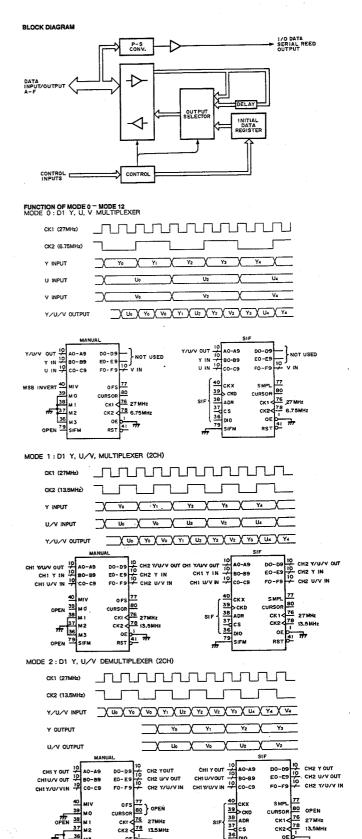


CXD8190Q (SONY) FLAT PACKAGE C-MOS SUPER MULTIPLEX-DEMULTIPLEXER TOP VIEW -



PIN No.	1/0	SIGNAL.	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1		OE	21	1/0	B7	41	1	RST	61	1/0	E7
2	_	GND	22	1/0	B8	42	_	GND	62	1/0	E8
3	1/0	AO	23	-	GND	43	1/0	D0	63	-	GND
4	1/0	A1	24	1/0	89	44	1/0	D1	64	1/0	E9
5	1/0	A2	25	1/0	CO	45	1/0	D2	65	1/0	FO
6	1/0	A3	26.	1/0	C1	46	1/0	D3	66	1/0	F1
7	1/0	A4	27	1/0	C2	47	1/0	D4	67	1/0	F2
8	1/0	A5	28	1/0	C3	48	1/0	D5	68	1/0	F3
9	1/0	A6	29		C4	49	1/0	D6	69		F4
10	1/0	A7	30		C5	50	1/0	D7	70	\perp	F5
11	1/0	A8	31		C6	51	0	D8	71	1	F6
12	-	GND	32	1	C7	52	-	GND	72	1	F7
13	1/0	A9	33	-	VDD	53	1/0	D9	73	_	VDD
14	1/0	BO	34	1	C8	54	1/0	EO	74		F8
15	1/0	B1	35	1	C9	55	1/0	E1	75	1	F9
16	1/0	B2	36	1/0	DIO/M3	56	1/0	E2	76	1	CK1
17	1/0	B3	37		CS/M2	57	1/0	E3	77	1	SMPL/OFS
18	1/0	B4	38	1	ADR/M1	58	1/0	E4	78	ı	CK2
19	1/0	B5	39	1	CKD/M0	59	1/0	E5	79		SIFM
20	1/0	86	40	T	CKX/MIV	60	1/0	E6	- 80	Ī	CURSOR
20	100								_		





OFS

CK2

OE RST

CURSO

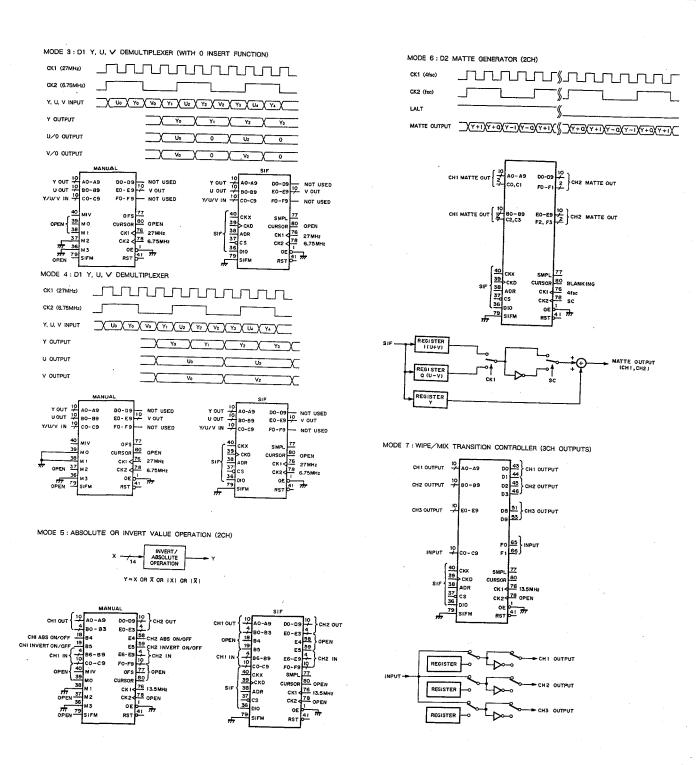
0PEN 38 M1

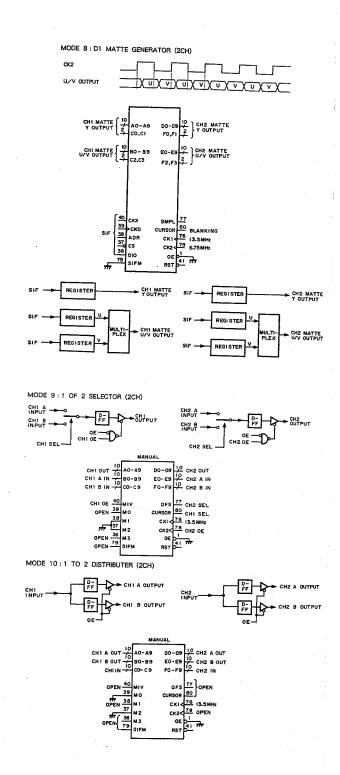
80 OPEN 76 27MHz 78 13.5MHz

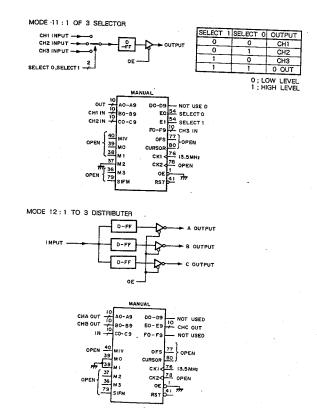
OPEN

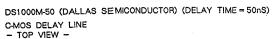
27 MHz 13,5 MHz

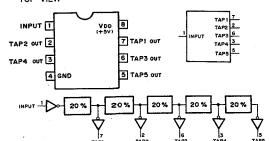
CS DIO







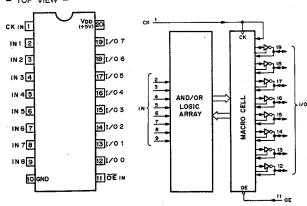




	DELAY TIME (ns)										
TYPE. NO.	TAPl	TAP2	TAP3	TAP4	TAP5						
DS1000M-50	10	20	30	40	50						
DS1000M-60	12	24	36	48	60						
DS1000M-75	15	30	45	60	75						
DS1000M-100	20	40	60	80	100						
DS1000M-125	25	50	75	100	125						
DS1000M-150	30	60	90	120	1.50						
DS1000M-175	35	70	105	140	175						
DS1000M-200	40	80	120	160	200						
DS1000M-250	50	100	150	200	250						
DS1000M-500	100	200	300	400	500						

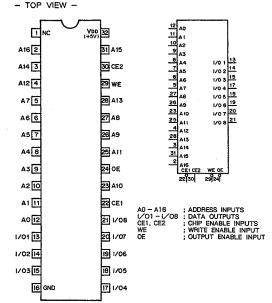
GAL16V8A-15LP (LATTICE) GAL16V8A-25LP (LATTICE) GAL16V8B-10LP (LATTICE)

C-MOS ELECTRICALLY ERASABLE PROGRAMMABLE LOGIC DEVICE - TOP VIEW -



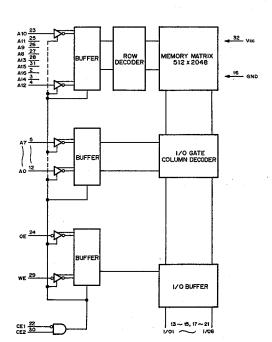
* ABOVE DIAGRAM SHOWS CONDITIONS BEFORE PROGRAMMING.

HM628128LFP-7 (HITACHI) FLAT PACKAGE C-MOS 131072-WORDx8-BIT HIGH SPEED STATIC RAM



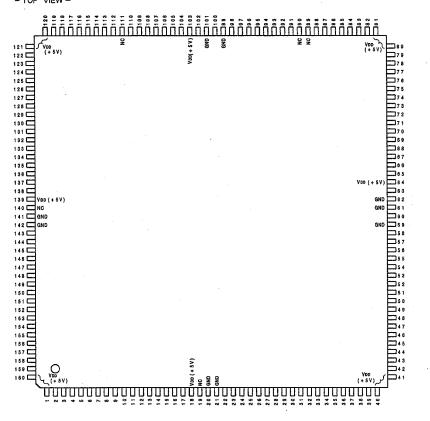
CE1	CE2	ΟE	WE	MODE	I/O TERMINAL
1	Х	X	Х	NOT SELECT	HI-Z
X	0	Х	Х	NOT SELECT	HI-Z
0	1	1	1	OUTPUT DISABLE	HI-Z
0	1	0	_ 1	READ	DATA OUTPUT
_	1	$\overline{}$	_	MOSTE	DATA INDUST

; LOW LEVEL ; HIGH LEVEL ; DON'T CARE ; HIGH IMPEDA



CXD8827Q(SONY)

C-MOS VIDEO MODIFIER - TOP VIEW -



122	Інов						OUTOB	134
3								28
2	IN 10						OUT10	27
159	IN 11						OUT11	2 6
158	IN 12						OUT12	2 5
157	IN 13						OUT13	2 4
156	IN 14						OUT14	2 3
155	IN 15						OUT15	2 2
154	1N 16						OUT16	17
153	! N 1 7						O UT17	16
152	1N18						QUT18	15
151	1N19						OUT19	1 4
150	IN I A						OUT1A	13
1 50	IN 18						OUT1B	<u>⊢</u> *
3 1	IN 20						OUT20	70
30								6 9
29	IN 21						QUT21	68
12	IN 22						OUT22	67
11	IN23						OUT23	6 6
10	1N24						OUT24	6.5
9	IN25						OUT25	5 8
8	IN 26						OUT26	6 7
7	IN 27						OUT27	5 6
6	IN 28						OUT28	5 5
5	1829						OUT29	5 4
4	IN2A						OUT2A	5 3
	IN 28						OUT2B	
45	1830						OUTSD	110
4.4	IN31						OUT31	109
43	IN32						OUT32	108
42	IN33						OUTSS	107
3 9	IN34						OUT34	108
38	1135						OUT35	105
3 7	11136						OUT38	104
36								98
3 5	IN37						OUT37	9 7
3 4	1N38						OUT38	9 6
3 3	IN39						OUT39	9 5
3 2	INSA						OUTSA	9 4
	INSB						OUT3B	_
7.5	1840						DT1YO	9 2
74	IN41						DT1CO	9 1
73	IN42						DT20	93
72	IN 43							7 6
71	IN44						0E0	77
5 2	IN45						0E1	78
51	5 N 4 8						OE2	7 9
5 0	EN 47						OE3	i i
4.9	IN 48						DT11	8 2
4 8	11149						0171	8 3
4.7	INAA							8.8
4.6	IN 4B						TN IN	118
	1,,,,,,						TSTO	<u> </u> *
1 17	СТІМ							1
102	SDAT							1
112	SADD							1
	SADD 5	cks cks	> CKX		- 0	- 01	- N	1
	١٪	2 2	> CK	cso	CS1	101	EN1	ŧ.

V V V E 000 11 11 11 11

OUT00 148 OUT01 147 OUT02 146

OUTO2 146
OUTO3 145
OUTO4 144
OUTO5 143
OUTO6 138
OUTO7 137
OUTO8 136
OUTO9 136
OUTOB 28

PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1	-	VDD	41.	-	VDD	81	-	VDD	121		VĐĐ
2	ī	IN 1 1	42	1	IN 3 3	8 2	1	DT11	122	1	INOB
3	ī	IN 10	4 3	1	IN 3 2	8.3	1	DT21	123	ı	INOA
4	ī	IN 2 B	44	1	IN 31	8 4	ı	LD1	124		1009
5		IN 2 A	4.5	1	1830	8.5	1	EN1_	125	ı	IN 08
6	1	1129	4 6	1	IN4B	86	1	LD2	126	1	IN 0 7
7	П	1N28	47	1	IN 4 A	87	1	EN2	127	1	IN 0 6
8		IN 2 7	4 8	1	IN 49	8.8	1	TN IN	128	-	IN 0 5
9	П	IN 2 6	4 9	1	IN 48	8 9	-	NC	129	1.	IN 0 4
1.0	.1	IN 25	50	1	1N47	90		NC	130	1	1N03
11	1	1N24	5 1	1	IN 4 6	91	0	DT1CO	131	T	1N02
12	1	IN 2 3	5 2	J	1N45	9 2	0	DT1Y0	132	1	IN 0 1
13	0	OUT1B	5.3	0	OUT2B	93	0	DT20	133		INCO
14	0	OUT1A	5 4	0	OUT2A	9 4	0	OUT3B	134	0	OUTOB
15	0	OUT19	5.5	0	OUT29	9 5	0	OUT3A	135	0	OUTOA
16	0	OUT18	5 6	0	OUT28	96	0	OUT39	136	0	OUT09
17	0	QUT17	5 7	0	OUT27	97	0	OUT38	137	0	OUTOB
18	-	V DD	58	0	OUT26	98	0	OUT37	138	0	OUT07
19	-	NC	59	-	GND	99	-	GND	139	_	Von
20	-	GND	6.0	1	CK	100	L	CKD	140	-	NC
21	-	GND	6 1	-	GND	101	-	GND	141		GND
22	0	OUT16	6 2	~	GND	102	1/0	SDAT	142	-	GND
23	0	OUT15	6 3	1	CKS	103	-	V DD	143	0	OUT06
24	0	OUT14	8 4	-	VDD	104	0	OUT36	144	0	OUT05
25	0	OUT13	6.5	0	OUT25	105	0	OUT35	145	0	OUT04
26	0	OUT12	6 6	0	OUT24	108	0	OUT34	146	0	OUT03
27	0	OUT11	67	0	OUT23	107	0	OUT33	147	0	OUT02
28	0	OUT10	6.8	0	OUT22	108	0	OUT32	148	0	OUT01
29	ن ا	IN 2 2	69	0	QUT21	109	0	OUT31	149	0	OUTOO
30	1	IN 21	70	0	OUT20	110	0	OUT30	150	1	IN 1B
31	1	IN 20	71	1	IN 4 4	111		NC	151		IN 1 A
32	1	1N3B	72	_	IN 43	112	_	SADD	152	_	IN 19
33	1	INSA	73	1	1N42	113	1	CKX	153	_	IN 18
3 4	1	IN 39	74	1	IN 4 1	114	1	C82	154	-	IN 17
3 5	1	IN 38	7 5		IN40	115	1	CS1	155		IN 16
36	1	IN 37	76		OE0	116	1	CSO	156	ı	IN 15
37	_1_	1N36	7.7	_	OE1	117	1	CTIM	157	-	1N14
38	1	1N35	78	L	OE2	118	0	TSTO	158	1	IN 13
39	1	IN 3 4	79	1	OE3	119	ı.	RST	159		IN 12
40	-	V DD	80	-	V DD	120	-	V DD	160	_	V DD

INPUT

CK ;SYSTEM CLOCK

CKD ;CLOCK FOR SAMPLE AND HO

CKX ;TIMING FOR SERIAL CONTRO

CSO,CS1,CS2

;CHIP SELECT

CTIM ;COLOR TIMING SPECIFIED

DT11,DT21

SAMPLE PULSE FOR SAMPLE CLOCK FOR SAMPLE AND HOLD CIRCUIT IN OUT1
TIMING FOR SERIAL CONTROL EXECUTION

DT11,DT21

;SAMPLE PULSE FOR SAMPLE AND HOLD CIRCUIT IN OUT1,OUT2
EN1,EN2 ;NAMADD1, NAMADD2 CIRCUIT ENABLE(IN COUNTER MODE)
IN00-IN08,IN10-IN18,IN20-IN28,IN30-IN38,IN40-IN48

INDO-INDS, IN 10-1N18, IN 20-IN28, IN 30-IN38, IN 40-IN48

;DATA INPUTS

LD1, LD2: NAMADD1, NAMADD2 CICUIT LOAD PIN(IN COUNTER MODE)

OE0, OE1, OE2, OE3

;OUTPUT ENABLE FOR OUT0, OUT1, OUT2, OUT3

SADD ;SERIAL ADDRESS

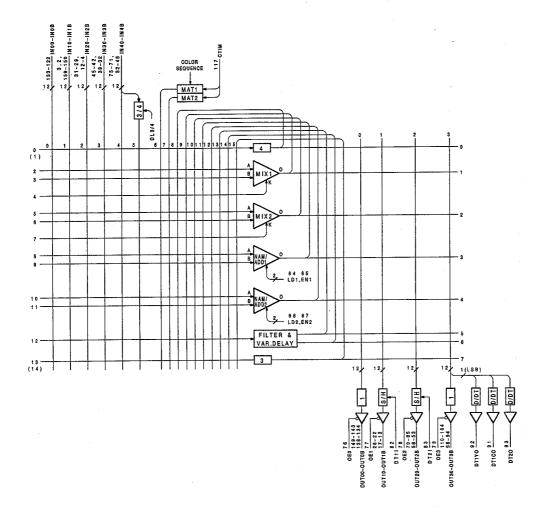
RST ;POWER RESET

TN IN ;TEST TERMINAL

OUTPUT
DT1Y0,DT1C0,DT20
:SAMPLE PULSE OUTPUT
OUT00-OUT0B,OUT10-OUT1B,OUT20-OUT2B,OUT30-OUT3B
:DATA OUTPUTS
TST0 :TEST TERMINAL

INPUT/OUTPUT SDAT ;SERIAL DATA



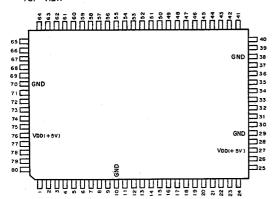


8-31

HD647180X (HITACHI)

CMOS 8-BIT MICRO PROCESSING UNIT

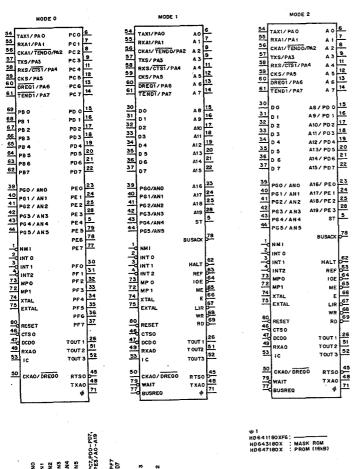
TOP VIEW —

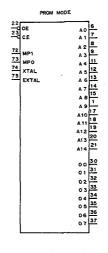


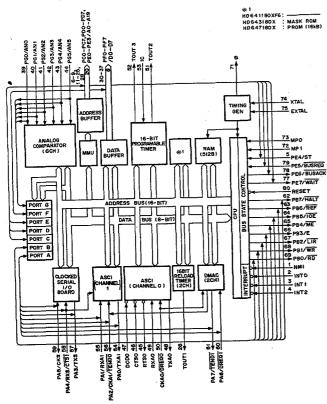
INPUT ANO — AN5 BUSREQ CTSO, 1 DCDO, 1 DREQO, 1 EXTAL IC INTO — 2 MPO, 1 NMI PROO — PG5 RXAO, 1 RXS XTAL	: ANALOG INPUT : BUS REQUEST : CLEAR TO SEND FOR ASYNCHRONOUS SCI CHANNEL n (n=0 OR 1) : DATA CARRIER DETECT FOR ASYNCHRONOUS SCI CHANNEL n (n=0 OR 1) : DMA REQUEST FOR CHANNEL n (n=0 OR 1) : EXTERNAL CLOCK : INPUT CAPTURE : INTERRUPT : MOD PROGRAM : NON-MASKABLE INTERRUPT : 6-BIT INPUT OF PORT 0 : RECEIVE DATA FOR ASYNCHRONOUS SCI CHANNEL n (n=0 OR 1) : RECEIVE DATA FOR SERIAL I/O PORT : CLOCK
OUTPUT A0 - A19 BUSACK E IOE LIR ME RD REF RTSO, 1 ST TENDO, 1 TOUT1 - 3 TXAO, 1 TXAO, 1 TXS WR	CADDRESS BUS BUS ACKNOWLEDGE BUS ACKNOWLEDGE EANBLE L/O ENABLE L/O ENABLE LOAD INSTRUCTION REGISTER MEMORY ENABLE READ REFRESH RECUEST TO SEND FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1) STATUS TRANSFER END FOR CHANNEL n (n = 0 OR 1) TRANSFER OUT TRANSFER DATA FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1) TRANSFER DATA FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1) TRANSFER DATA FOR SERIAL L/O PORT WRITE SYSTEM CLOCK
PCO — PC7 PDO — PD7 PEO — PE7 PFO — PF7 MODE 0 MODE 1 MODE 2	JT CLOCK FOR ASYNCHRONOUS SCI CHANNEL n (n=0 OR 1) CLOCK FOR SEMAL L/O PORT DATA BUS 8-BIT INPUT/OUTPUT OF PORT A 8-BIT INPUT/OUTPUT OF PORT C 8-BIT INPUT/OUTPUT OF PORT E 8-BIT INPUT/OUTPUT OF PORT E 8-BIT INPUT/OUTPUT OF PORT F 1- HD643180X, HD647180X HD641180XF6, HD643180X, HD647180X E HD643180X, HD647180X

PIN	Τ	MODE 0	T	MODE 1	T	MODE 2	F	PROM MODE		
No.	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL		
_	T	NMI	1	NMI		NMI	0	A9		
2	1	INTO	1	INTO	1	INTO	<u> </u>	NC		
3	1	INT1	11:	INTI	1	INTI	-	NC		
4		INT2	1	INT2		INT2	Ι	NC		
5	1/0	PE4	0	ST	0	ST	I -	NC		
6	1/0	PC0	0	A0	0	A0	0	A0		
7	1/0	PC1	0	A1	0	A1	0	A1		
8	1/0	PC2	0	A2	0	A2	0	A2		
9	1/0	PC3	0	EA.	0	A3 .	0	A3		
10	-	GND	 -	GND	- 1	GND	-	GND		
11	1/0	PC4	0	A4	0	A4	0	A4		
12	1/0	PC5	0	A5	0	A5	0	A5		
13	1/0	PC6	0	A6	0	A6	0	A6		
14	1/0	PC7	0	A7	0	A7	0	A7		
15	1/0	PD0	0	A8	1/0	A8/PD0	0	8A		
16	1/0	PD1	0	A9	1/0	A9/PD1		NC		
17	1/0	PD2	0	A10	1/0	A10/PD2	0	A10		
18	1/0	PD3	0	A11	1/0	A11/PD3	0	A11		
19	1/0	PD4	0	A12	1/0	A12/PD4	0	A12		
20	1/0	PD5	0	A13	1/0	A13/PD5	0	A13		
21	1/0	PD6	0	A14	1/0	A14/PD6	0	A14		
22	1/0	PD7	0	A15	0	A15/PD7	1	OE		
23	1/0	PE0	0	A16	1/0	A16/PE0	1	CE		
24	1/0	PE1	0	AI7	5	A17/PE1	-	NC		
25	1/0	PE2	0	81A	1/0	A18/PE2	-	NC		
26	0	TOUT1	0	TOUT1	0	TOUT1	<u> </u>	NC		
27	-	VDD	-	VDD	-	Voo	<u> </u>	VDD		
28	1/0	PE3	0	A19	1/0	A19/PE3	<u> -</u>	NC		
29	-	GND	-	GND	_	GND		GND		
30	1/0	PF0	1/0	D0	1/0	D0	0	00		
31	1/0	PF1	1/0	D1	1/0	DI	0	01		
32	1/0	PF2	1/0	D2	1/0	D2	0	02		
33	1/0	PF3	1/0	D3	1/0	D3	0	03		
34	1/0	PF4	1/0	D4	1/0	D4	0	04		
35	1/0	PF5	1/0	D5	1/0	D5	0	05		
36	1/0	PF6	1/0	D6	1/0	D6	0	06		
37	1/0	PF7	1/0	D7	1/0	D7	0	07		
38	<u>-</u> I	GND	-	GND	-	GND		GND		
39.		PGO/ANO	1	PGO/ANO	1	PGO/ANO	-	NC		
40	- 1	PG1/AN1	1	PG1/AN1	1	PG1/AN1		NC		

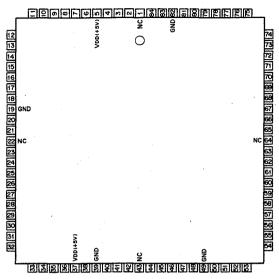
PIN		MODE 0		MODE 1		MODE 2	. P	ROM MODE
No.	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL
41		PG2/AN2	T	PG2/AN2	Т	PG2/AN2	-	NC
42		PG3/AN3	1	PG3/AN3	\neg	PG3/AN3	-	NC
43		PG4/AN4	1	PG4/AN4		PG4/AN4	- 1	NC
44		PG5/AN5	1	PG5/AN5		PG5/AN5	-	NC
45	0	RTS0	0	RTS0	0	RTS0		NC
46	. 1	CTS0	1	CTS0	<u> </u>	CTS0	-	NC
47	1	DCD0	_	DCD0	_	DCD0	-	NC
48	0	TXA0	0	TXA0	٥	TXAO	-	NC NC
49	-	RXA0	_	RXA0	-	RXA0	1	NC .
50	1/0	CKAO/DREQ0	0	CKAO/DREQ0	0	CKAO/DREQ0	-	NC
51	0	TOUT2	0	TOUT2	0	TOUT2		NC
52	0	TOUT3	0	TOUT3	0	TOUT3	ţ	NC
53	-	1C		IC	_	2	-	NC
54	1/0	TXA1/PA0	1/0	TXA1/PA0	1/0	TXA1/PA0	Ī	NC
55	1/0	RXA1/PA1	1/0	RXA1/PA1	1/0	RXA1/PA1	1	NC
56	1/0	CKA1/TENDO/PA2	1/0	CKA1/TENDO/PA2	1/0	CKA1/TENDO/PA2	ī	NC
57	1/0	TXS/PA3	1/0	TXS/PA3	1/0	TXS/PA3	1	NC
58	1/0	RXS/CTST/PA4	1/0	RXS/CTST/PA4	1/0	RXS/CTST/PA4	1	NC
59	1/0	CKS/PA5	1/0	CKS/PA5	1/0	CKS/PA5	-	NC
60	1/0	DREQT PAG	1/0	DREQ1/PA6	1/0	DREQ1/PA6	-	NC
61	1/0	TENDI/PA7	1/0	TENDI / PA7	1/0	TENDI/PA7	-	NC
62	1/0	PB7	0	HALT	0	HALT	-	NC
63	1/0	PB6	0	REF	0	REF	-	NC
64	1/0	PB5	0	IOE	0	IOE	- :	NC
65	1/0	PB4	0	ME	0	ME		NC
66	1/0	PB3	0	E	0	E	1	NC
67	1/0	PB2	0	LIR	O	LIR	Ι	NC
68	1/0	PBI	0	WR	.0	WR	_	NC
69	1/0	PB0	0	RD	0	RD	<u> </u>	NC
70	-	GND	-	GND	_	GND	<u> </u>	GND
71	0	ф	0	ф	0	ф		NC NC
72	T	MPI	ı	MP1		MP1	1	MP1
73	T	MP0	1	MP0	I	MP0	1.	MP0
74		XTAL	T	XTAL	1	XTAL	1	XTAL
75	1	EXTAL	1	EXTAL	ī	EXTAL	1	EXTAL
76	T-	Voo	1 -	Voo	-	Voo	-	VDD
77	1/0	PE7	1 1	WAIT	1	WAIT	<u> </u>	NC
78	1/0	PE6	0	BUSACK	0	BUSACK	E	NC NC
79	1/0	PE5	T	BUSREQ	1	BUSREQ	ĪΞ	NC
80	ŤΤ	RESET	1	RESET	1	RESET	-	VPP







HD647180XOCP6 (HITACHI) C-MOS 8-BIT MICRO PROCESSING UNIT - TOP VIEW -



EXTAL : EXTERNAL CLOCK (C : INPUT CAPTURE INTO - 2 : INTERRUPT MP0. 1 : MOD PROGRAM INON-MASKABLE INTERRUPT PG0 - PG5 : 6-BIT INPUT OF PORT G RXA0, 1 : RECEIVE DATA FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1) RXS : RECEIVE DATA FOR SERIAL I/O PORT XTAL : CLOCK	INTO - 2 MPO, 1 NMI PGO - PG5 RXAO, 1 RXS
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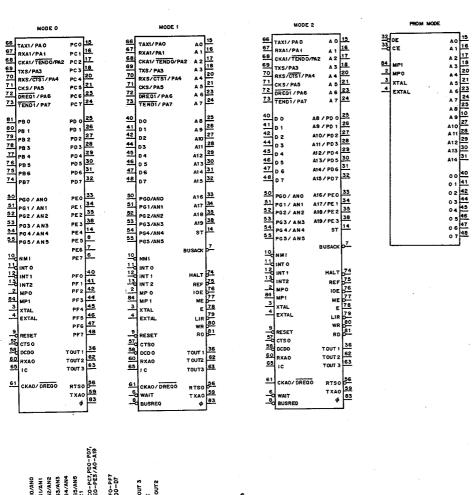
: ADDRESS BUS
: BUS ACKNOWLEDGE
: EANBLE
! LOAD INSTRUCTION REGISTER
: MEMORY ENABLE
: READ
: REFRESH'
: REQUEST TO SEND FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1)
: THANSFER END FOR CHANNEL n (n = 0 OR 1)
: THANSFER DATA FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1)
: TRANSFER DATA FOR SERIAL I/O PORT
: WAITE
: SYSTEM CLOCK

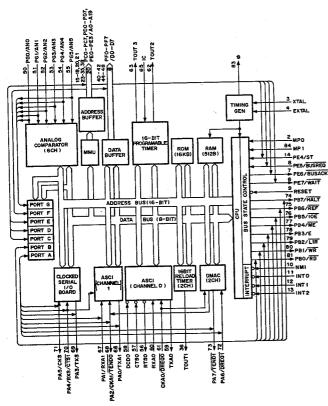
INPUT/OUTPUT
CKAO, 1
CKS
;
CO—D7
;
PAO—PA7
;
PBO—PB7
;
PCO—PC7
;
PEO—PC7
;
PFO—PF7
; UT

CLOCK FOR ASYNCHRONOUS SCI CHANNEL n (n = 0 OR 1)
CLOCK FOR SERIAL I/O PORT
DATA BUS
BEST INPUT/OUTPUT OF PORT A
BEST INPUT/OUTPUT OF PORT C
BEST INPUT/OUTPUT OF PORT C
BEST INPUT/OUTPUT OF PORT C
BEST INPUT/OUTPUT OF PORT D
BEST INPUT/OUTPUT OF PORT E
BEST INPUT/OUTPUT OF PORT E
BEST INPUT/OUTPUT OF PORT F

PIN	Г	MODE 0	Т	MODE 1	Γ	MODE 2	P	ROM MODE
No.	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL
1	-	NC	-	NC	= 1	NC	-	NC
2	1	MP0		MP0	1	MPO	1	MP0
3	1	XTAL	T	XTAL		XTAL	1	XTAL
4	1	EXTAL	1	EXTAL	1	EXTAL	1	EXTAL
5	- 1	VDD	-	VDD	-	VDD		Vop
6	1/0	PE7	1	WAIT	1	WAIT	-	NC
7	1/0	PE6	0	BUSACK	0	BUSACK		NC
8	1/0	PE5	1	BUSREQ	1	BUSREQ	- 1	NC
9	-	RESET		RESET	1	RESET	-	VPP
10	1	NMI		NMI	_	NMI	0	A9
11	1	INTO		INTO	1	INTO	-	NC
12	1	INT1	1	INT1	1	INT1	~	NC
13	1	INT2	1	INT2	1	INT2	_	NC
14	1/0	PE4	0	ST	0	ST	-	NC
15	1/0	PC0	0	A0	0	A0	0	A0_
16	1/0	PC1	0	A1	0	A1	0	A1
17	1/0	PC2	0	A2	0	A2	0	A2
18	1/0	PC3	0	A3	0	A3	0	A3
19	-	GND	-	GND	-	GND	-	GND
20	1/0	PC4	0	A4	0	A4	0	A4
21	1/0	PC5	0	A5	0	A5	0	A5
22	-	NC	- 1	NC	-	NC	- 1	NC
23	1/0	PC6	0	A6	0	A6	0	A6
24	1/0	PC7	0	A7	0	A7	0	A7
25	1/0	PD0	0	A8	2	A8/PD0	0	A8
26	1/0	PD1	0	A9	1/0	A9/PD1		NC
27	1/0	PD2	0	A10	1/0	A10/PD2	0	A10
28	1/0	PD3	0	A11	10	A11/PD3	0	A11
29	1/0	PD4	0	A12	2	A12/PD4	0	A12
30	1/0	PD5	0	A13	1/0	A13/PD5	0	A13
31	1/0	PD6	0	A14	1/0	A14/PD6	0	A14
32	1/0	PD7	0	A15	1/0	A15/PD7		OE
33	1/0	PE0	0	A16	1/0	A16/PE0		CE
34	1/0	PE1	0	A17	1/0	A17/PE1	- 1	NC
35	1/0	PE2	0	A18	0	A18/PE2	- 1	, NC
36	0	TOUT1	0	TOUT1	0	TOUT1	- 1	NC
37		VDD	-	VDD	_	VDD	-	VDD
38	i/0	PE3	0	A19	1/0	A19/PE3	-	NC
39	-	GND	-	GND	1	GND	-	GND
40	1/0	PF0	1/0	D0	1/0	D0	0	00
41	1/0	PF1	1/0	D1	1/0	D1	0	01
42	0	PF2	1/0	D2	1/0	D2	0	02

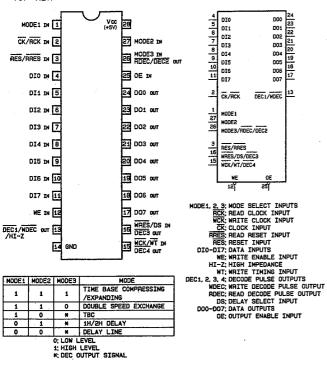
PIN		MODE 0		MODE 1		MODE 2	Р	ROM MODE
No.	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL	1/0	SIGNAL
43	-	NC	-	NC	1	NC	-	NC
44	1/0	PF3	1/0	D3	1/0	D3	0	03
45	1/0	PF4	1/0	D4	1/0	D4	0	04
46	1/0	PF5	1/0	D5	0	D5	0	05
47	1/0	PF6	1/0	D6	1/0	D6	٥	06
48	1/0	PF7	2	D7	5	D7	0	07
49	1	GND	-	GND	1	GND	-	GND
50	_	PG0/AN0		PGO/ANO	_	PG0/AN0	_	NC
51		PG1/AN1	-	PG1/AN1	1	PG1/AN1	-	NC
52		PG2/AN2	-	PG2/AN2	_	PG2/AN2		NC
53		PG3/AN3		PG3/AN3	1	PG3/AN3	-	NC
54	1	PG4/AN4		PG4/AN4	_	PG4/AN4	-	NC
55	1	PG5/AN5		PG5/AN5	_	PG5/AN5	3	NC
56	0	RTS0	0	RTS0	0	RTS0	-	NC
57	_	CTS0	1	CTS0	_	CTS0_	-	NC
58		DCD0	-	DCD0	1	DCD0	-	NC
59	0	TXAO	0	TXA0	0	TXA0	-	NC
60	1	RXA0	_	RXA0		RXA0	-	NC
61	1/0	CKAO/DREQO	1/0	CKA0/DREQ0	1/0	CKAO/DREQO	_	NC
62	0	TOUT2	0	TOUT2	0	TOUT2	-	NC
63	0	TOUTS	0	TOUT3	0	TOUT3	-	NC
64	-	NC	-	NC	-	NC	-	NC
65		IC	_	IC	1	IC	-	NC
66	1/0	TXA1/PA0	1/0	TXA1/PA0	1/0	TXA1/PA0	-	NC
67	1/0	RXA1/PA1	1/0	RXA1/PA1	1/0	RXA1/PA1	-	NC_
68	1/0	CKA1/TENDO/PA2	1/0	CKA1/TENDO/PA2	1/0	CKA1/TENDO/PA2	-	NC
69	1/0	TXS/PA3	1/0	TXS/PA3	1/0	TXS/PA3	-	NC
70	1/0	RXS/CTST/PA4	1/0	RXS/CTST/PA4	0	RXS/CTST/PA4	-	NC_
71	1/0	CKS/PA5	1/0	CKS/PA5	1/0	CKS/PA5	-	NC
72	1/0	DREQ1/PA6	1/0	DREQ! /PA6	1/0	DREQT/PA6	-	NC
73	1/0	TENDI / PA7	1/0	TENDI / PA7	1/0	TENDI / PA7	-	NC
74	1/0	P87	0	HALT	0	HALT	-	NC_
75	1/0	PB6	0	REF	0	REF	1	NC
76	1/0	PB5	0	10E	0	IOE	-	NC
77	1/0	PB4	0	ME	0	ME	-	NC .
78	1/0	PB3	0	E	0	E	-	NC
79	1/0	PB2	0	LIR	0	LIR	-	NC
80	1/0	PBI	0	WR	0	WR		NC
81	1/0	PB0	0	RD	0	RD	-	NC
82	-	GND	-	GND	-	GND	-	GND
83	0	ф	0	ф	0	ф	-	NC
84	1	MPI	1	MP1	1	MPI	1	MP1



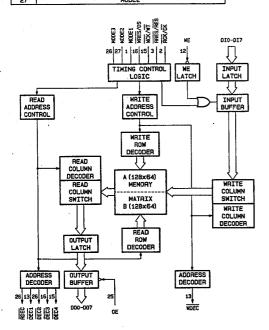


HM63021FP-28 (HITACHI) FLAT PACKAGE HM63021P-28 (HITACHI)

2048 WORDx8-BIT LINE MEMORY - TOP VIEW -



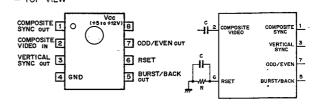
		MODE					
PIN NO.	TIME BASE DOUBLE COMPRESSING SPEED /EXPANDING EXCHANGE	TBC	1H/2H DELAY	DELAY LINE			
1		MODE1					
5	RCK		C	K			
3	ARES		RI	S			
4-11	D	IO-DI7					
12		WE					
13	HI-Z	MDEC	DE	C1			
15	WCK		HT	DEC4			
16	WRES		DS	DEC3			
17-24	D00-D07						
25	<u>OE</u>						
26	MODE3 ROEC DECE						
27	1	MODES					

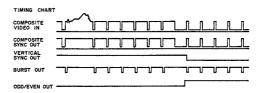


ICL7621BCSA (MAXIM) FLAT PACKAGE C-MOS DUAL OPERATIONAL AMPLIFIER - TOP VIEW -



LM1881M (NS) FLAT PACKAGE VIDEO SYNC SEPARATOR - TOP VIEW -

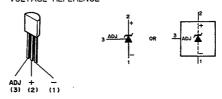




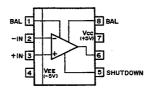
LM360M (NS) FLAT PACKAGE HIGH SPEED VOLTAGE COMPARATOR (TTL OUTPUT) - TOP VIEW -



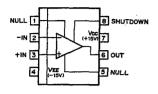
LT1009CZ (LINEAR TECHNOLOGY) VOLTAGE REFERENCE



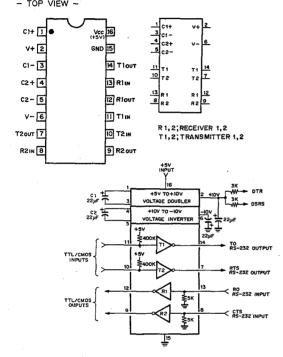
LT1191CS8 (LINEAR TECH) FLAT PACKAGE HIGH SPEED OPERATIONAL AMPLIFIER - TOP VIEW -



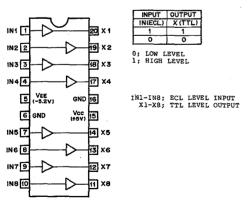
LT1227CS8 (LINEAR TECH) FLAT PACKAGE HIGH SPEED OPERATIONAL AMPLIFIER - TOP VIEW -



MAX232CPE (MAXIM) RS-232 TRANSMITTER/RECEIVER - TOP VIEW -

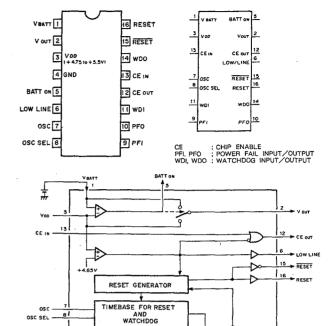


MB766P (FUJITSU) OCTAL ECL TO TTL LEVEL TRANSLATOR - TOP VIEW -



MAX691CPE (MAXIM)

C-MOS MICROPROCESSOR SUPERVISORY CIRCUITS - TOP VIEW -

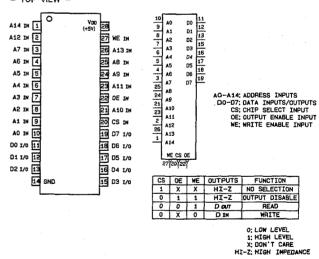


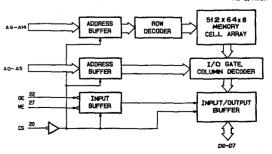
WATCHDOG TIMER

MB84256A-10LPF (FUJITSU) FLAT PACKAGE C-MOS 256K (32768x8)-BIT STATIC RAM - TOP VIEW -

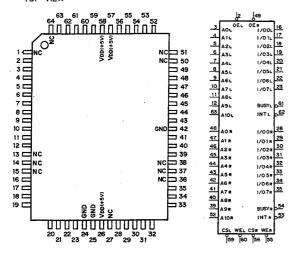
WATCHDOG TRANSITION DETECTOR

OSC SEL -

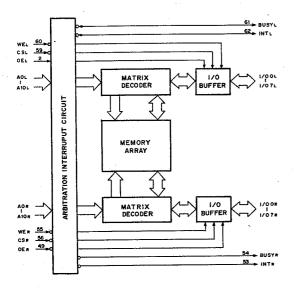




MB8421-90LPFQ (FUJITSU) (ACCESS TIME = 90nS) FLAT PACKAGE C-MOS 16384 (2Kx8) BIT DUAL PORT STATIC RAM - TOP VIEW -

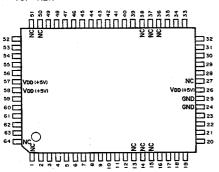


A0L - A10L, A0R - A10R: ADDRESS INPUTS
I/OOL - I/O7L, I/O0R - I/O7R: DATA INPUTS/OUTPUTS
CSL, CSR: CHIP SELECT INPUT
WEL, WER: WRITE ENABLE INPUT
OEL, OER: OUTPUT ENABLE INPUT
BUSYL, BUSYR: BUSY OUTPUT
INTL, INTR: INTERRUPT OUTPUT

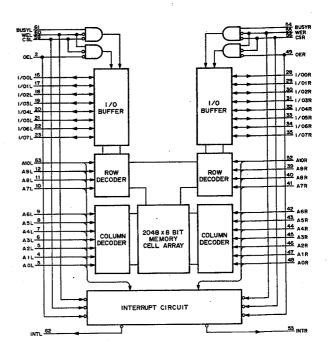


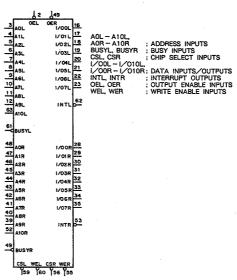
MB8431-90LPFQ (FUJITSU)

C-MOS 16K (2048x8)-BIT DUAL PORT STATIC RAM - TOP VIEW -



PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	-	NC	17	1/0	I/01L	33	1/0	I/05R	49		OER
2		OEL	18	1/0	1/02L	34	0	I/06R	50	-	NC
3		AOL	19	1/0	1/03L	35	1/0	1/07R	51	-	NC
4	T	A1L	20	1/0	1/04L	36	-	NC	52	_	A10R
5		A2L	21	1/0	1/05L	37	-	NC	53	0	INTR
6	T	A3L	22	1/0	1/06L	38	-	NC	54	1	BUSYR
7		A4L	23	1/0	1/07L	39	-	A9R	55	1	WER
8		A5L	24	-	GND	40	1	A8R	56	1	ĆSR
9	1	A6L	25	-	GND	41	_	A7R	57	-	Voo
10		A7L	26	-	VDD	42	_	A6R	58	-	OBV
11		A8L	27	-	NC	43	_	A5R	59	1	CSL
12		A9L	28	1/0	I/00R	44	_	A4R	60	-	WEL
13	-	NC	29	1/0	I/01R	45	_	A3R	61	-	BUSYL
14	-	NC	30	1/0	1/02R	46	1	- A2R	62	0	INTL
15	-	NC	31	1/0	1/03R	47	7	AIR	63	Ţ	A10L
16	1/0	1/00L	32	1/0	1/04R	48	-	A0R	64	-	NC

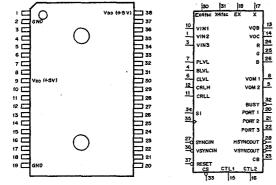




MB88325PF (FUJITSU)

C-MOS PROGRAMMABLE TV DISPLAY CONTROLLER - TOP VIEW -



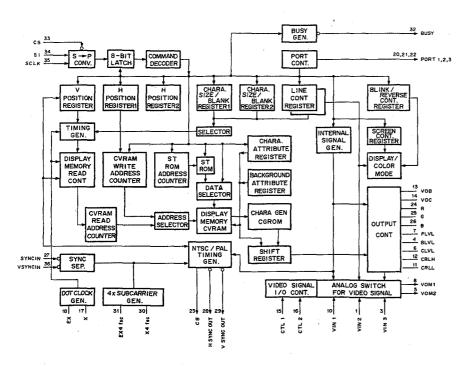


, (+5 v)	0	Veo (+5 V) 38 37 36 35 35 32 37 30 32 32 32 32 32 32 32 32 32	EXITIC XI 10 VIN1 VIN2 VIN3 VIN3 VIN3 VIN3 VIN3 VIN3 VIN3 VIN3	31 18 17 18 17 19 19 19 19 19 19 19
			V00 ++5V	·

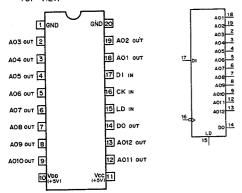
								00 ≠ + 5V
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1	_	VIN2	14	0	VOC	27	1	SYNCIN
2		GND	15	_	CTL1	28	0	HSYNCOUT
3	1	VINS	16	-	CTL2	29	0	VSYNCOUT
4	_	BLVL	17	0	×	30	0	X4 fsc
5_	0	VOM2	18	_	EX	31	1	EX4 fsc
6		CLVL	19	-	GND	32	0	BUSY
7	_	PLVL.	20	0	PORT 1	33	1	ČŠ
8	0	VOM1	21	0	PORT 2	34	1	SI
9		VDD	22	0	PORT 3	35	1	SCLK
10	1	VINI	23	0	CB	36	. 1	VSYNCIN
11		CRLL	24	0	R	37	T	RESET
12		CRLH	25	0	G	38		Voo
13	0	VOB	26	0	В			

BORDER OR BACKGROUND LEVEL CONTROL IN
CHARACTER LEVEL CONTROL IN
CHROMA HIGH LEVEL CONTROL IN
CHROMA LOW LEVEL CONTROL IN
CHIP SELECT IN
CHARACTER MIX OUTPUT SELECT IN
VIDEO INPUT SELECT IN
INTERNAL VIDEO SIGNAL LEVEL CONTROL IN
ERSET IN
SHIFT CLOCK IN
SERIAL DATA IN
VIDEO SIGNAL IN BLVL CLVL CRLH CRLL CS CTL1 CTL2 SYNCIN PLVL' RESET SCLK VIN1 VIN2 VIN3 VSYNCIN ; VIDEO SIGNAL IN1 ; VIDEO SIGNAL IN2 ; VIDEO SIGNAL IN3 ; V SYNC IN OUTPUT ; BLUE SIGNAL OUT
; BUSY OUT
; COLOR BURST SIGNAL OUT
; GRIEEN SIGNAL OUT
; H SYNC OUT
; OUTPUT PORT;
; OUTPUT PORT;
; OUTPUT PORT; BUSY
CB
G
HSYNCO
PORT1
PORT2 PORT3 R VOB VOC VOM1 VOM2 ; OUTPUT PORTS PORTS : OUTPUT PORTS
R : RED SIGNAL OUT
VOB : BORDER OR BACKGROUND SIGNAL OUT
VOC : CHARACTER SIGNAL OUT
VOM1 : VIDEO SIGNAL OUT1
VOM2 : VIDEO SIGNAL OUT2
VSYNCOUT : V SYNC OUT

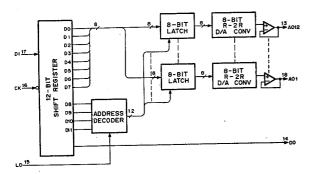
OTHER X, EX ; DOT CLOCK
X41sc, EX41sc; COLOR BURST CLOCK



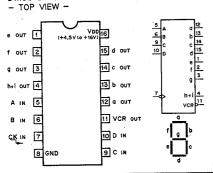
MB88346BPF (FUJITSU) FLAT PACKAGE C-MOS 8-BIT D/A CONVERTER - TOP VIEW -



: 8-BIT D/A OUTPUTS : CLOCK INPUT : SERIAL DATA INPUT : DATA OUTPUT : DATA LOAD CONTROL INPUT (H:LOAD)



MC14495P1 (MOTOROLA) C-MOS BCD-TO-SEVEN-SEGMENT 4-BIT LATCH/DECODER DRIVER

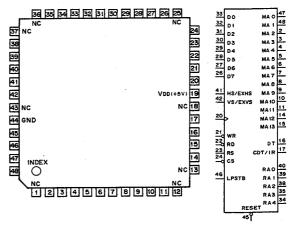


	IN	PUT	s					Óυ	TPU	TS				DISPLAY
СК	D	С	В	A	a	ь	c	ď	e	f	â	h+i	VCR	DISCLA
10	0	0	0	0	1	1	1	1	1	1	0	0	Z	
0	0	0	٥	1	0	1	1	0	0	0	0	0	Z	
6	0	0	1	0	1	1	0	1	1	٥	1	0	Z	2
0	0	0	1	1	1	1	1	1	0	0	1	0	Z	3
0	0	1	0	0	0	1	•	0	0	1	1	0	Z	4
0	0	1	0	1	-	0	1	1	0	1	1	0	Z	5
0	0	1	1	0	1	0	1	1	1	1	1	0	Z	6
0	0	1	1	1	1	1	1	0	0	0	0	٥	Z	
0	1	0	0	0	1	1	1	1	1	1	1	0	Z	8
10	11	0	0	1	1	1	1	1	0	1	1	0	Z.	9
Tō	11	0	1	0	1	1	1	0	1	1	1	1	Z	I A
10	11	0	1	1	0	0	1	1	1	1	1	1	Z	Ь
0	1	1	0	0	1	0	0	1	1	1	0	1	Z	
0	1	1	0	1	0	1	1	1	1	0	1	1	Z	d
0	1	1	1	0	1	0	0	1	1	1	1	1	z	E
10	11	1	1	1	1	0	0	0	1	1	1	1	0	F
15	×	1 x	x	X	×	X	X	×	X	×	X	X	Z/0	
Ti	Τx	X	1 x	X	X	X	X	×	X	X	X	ĪΧ	Z/0	DATA HOLD

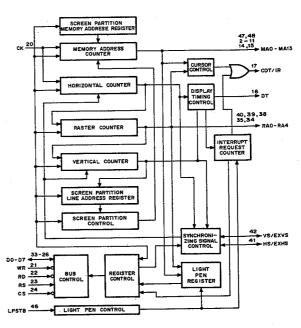
O:LOW LEVEL 1; HIGH LEVEL X; DON'T CARE Z; HIGH IMPEDANCE

MB89322APFQ (FUJITSU) FLAT PACKAGE

C-MOS PROGRAMMABLE CRT (CATHODE-RAY TUBE) CONTROLLER - TOP VIEW -

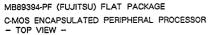


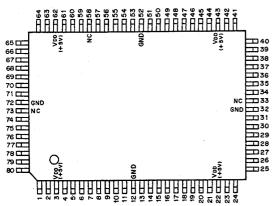
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGANL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1	- 1	NC	13	-	NC	25	- 1	NC	37		NC
2	0	MA2	14	0	MA12	26	1/0	D7	38	0	RA2
3	0	MA3	15	0	MA13	27	1/0	D6	39	0	RA1
4	0	MA4	16	0	DT	28	1/0	D5	40	0	RAO
5	0	MA5	17	0	CDT/IR	29	1/0	D4	41	1/0	HS/EXHS
6	0	MA6	18	=	NC.	30	1/0	D3	42	1/0	VS/EXVS
7	0	MA7	19	-	VDD (+5V)	31	1/0	D2	43	-	NC
8	0	MAB	20	T	CK	32	1/0	D1	44	-	GND
9	0	MA9	21	T	WR	33	1/0	DO	45		RESET
10	0	MA10	22	T	RD	34	0	RA4	46	1	LPSTB
11	0	MA11	23	1	RS	35	0	RA3	47	0	MAO
12	- 1	NC.	24	1	CS	36	-1	NC	48	0	MAI



INPUT CK CS LPSTB RD RESET RS WR : CLOCK
: CHIP SELECT
: LIGHT PEN STROBE
: READ
: RESET INPUT
: REGISTER SELECT
: WRITE OUTPUT
CDT //R
: CURSOR DISPLAY TIMING /
INTERRUPT REQUEST
DT
DT
MA0 - MA13 : MEMORY ADDRESS
RA0 - RA4 : RASTER ADDRESS

INPUT/OUTPUT DO - D7 ; HS/EXHS ; VS/EXVS ; ; DATA BUS ; H SYNC OUT/EXTERNAL H SYNC IN ; V SYNC OUT/EXTERNAL V SYNC IN

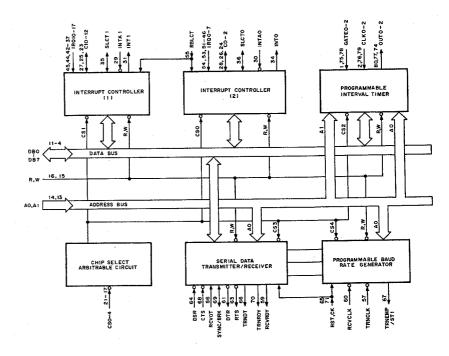




PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL
1		GATEO	21	1	CSO	41		IRQ13	61	0	DTR
2	1	CLKO	22	-	VDD	42		IRQ12	62	- 1	VDD
3	- 1	VDD	23	0	C12	43	1	Voo	63	0	RTS
4	1/0	DB7	24	1/0	C02	44		IRQ11	64	1	DSR
5	1/0	D86	25	1/0	C11	45	1	IRQ10	65	1	RST
6	1/0	DB5	26	1/0	C01	46	1	IRQ07	66	0	TRNDT
7	1/0	DB4	27	1/0	C10	47	I	IRQ06	67	0	TRNEMP/STI
8	1/0	DB3	28	1/0	C00	48	1	IRQ05	68	1	CTS
9	1/0	D82	29	1	INTA1	49	1	IRQ04	69	1/0	SYNC/BRK
10	1/0	DB1	30	1	INTAO	50		IRQ03	70	0	TRNRDY
11	1/0	DB0	. 31	0	INT1	51		IRQ02	71	1	CK
12	-	GND	32	-	GND	52	_	GND	72		GND
13	1	A1 -	33	-	NC	53		IRQ01	73	~	NC
14	1	A0	34	0	INTO	54		IRQ00	74	0	OUT2
15	1	W	35	1/0	SLCT1	55	T.	RSLCT	75	1	GATE2
16		R	36	1/0	SLCT0	56	1	RCVDT	76	1	CLK2
17	1	CS4	37	1	IRQ17	57	1	TRNCLK	77	0	OUT1
18	T	CS3	38	1	IRQ16	58		NC .	78	Ī	GATE1
19	1	CS2	39	1	IRQ15	59	0	RCVRDY	79	1	CLK1
20	1	CS1	40	1	IRQ14	60	1	RCVCLK	80	0	OUT0

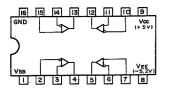
14 A0 A1 C50 C51 C52 C51 C53 C53 C54 DB0 11 DB1 10 D80 11 D81 10 D82 9 D83 7 D84 7 D85 6 D86 5 D87 4 54 53 51 50 49 48 47 46 30 IRQOI COO 28 CO 1 26 CO2 24 SLCTO 36 INTO 34 IRGO4 IRGO5 INTAO C 10 27 C1 1 25 C 12 23 SLCT 1 35 44 42 41 40 39 38 37 29 IRQI 1 IROIS IRQ 15 IRQ 16 NTA I 64 68 69 65 55 DTR RTS RCVDT TRNDT SYNC/BRK 60 RCVCLK OUT 0 80 OUT 1 77 OUT 2 74 1 GATE 0 78 GATE 1 75 GATE 2 2 CLK 0 79 CLK 1 CLK 2 15 6 71 65 71

: ADDRESS BUS
: CASCADE CONTROL
: CLOCK IN
: CLOCK FOR REFERANCE OF TIMING
: CLOCK FOR REFERANCE OF TIMING
: CHIP SELECT
: CLEAR TO SEND
: DATA BUS
: DATA BUS
: DATA SET READY
: DATA TERMINAL READY
: DATA TERMINAL READY
: COUNT OUT
: INTERRUPT ACKNOWLEDGE
: INTERRUPT REQUESTS
: INTERRUPT REQUESTS
: COUNT OUT
: READ
: RECEIVER CLOCK
: RECEIVE DATA
: RECEIVER READY
: REGEIVER READY
: REAR CODE DETECT
: TRANSMIT CLOCK
: TRANSMIT DATA
: TRANSMIT DATA
: TRANSMIT READY
: WRITE A0, A1 : C00 - C02 : CLK0 - CLK2 : CK : CS0 - CS4 : CTS : DB0 - DB7 : DSR : DTR : CATE : INTO, INT1 : INQ00 - IRQ07 : INT0, INT1 : IRQ10 - IRQ07 : IRQ07 : IRQ OUT! - OUT2 R RCVCLK RCVDT RCVRDT RSTC RST RTS SLCTO, SLCT1 SYNC/BRK TRNCLK TRNDT TRNEMP/STI

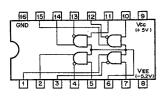


TRNRDT W

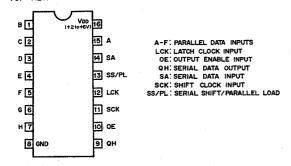
MC10125L (MOTOROLA) MC10H125M (MOTOROLA) FLAT PACKAGE ECL ECL-TO-TTL TRANSLATOR - TOP VIEW -



MC10H124M (MOTOROLA) FLAT PACKAGE ECL TTL-TO-ECL TRANSLATOR - TOP VIEW -

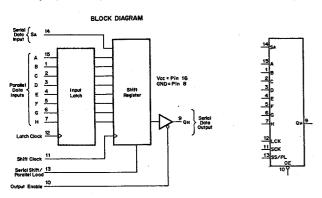


MC74HC589F (MOTOROLA) FLAT PACKAGE C-MOS 8-BIT SERIAL OR PARALLEL INPUT/SERIAL OUTPUT SHIFT REGISTER WITH 3-STATE OUTPUT - TOP VIEW -

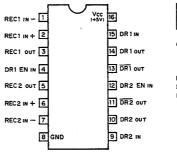


		INPU	TS			OUTPUT	
UTPUT	PARALLEL LOAD	LATCH CLOCK	SHIFT CLOCK	SA	А-Н		RESULTING FUNCTION
н	×	×	X	X	X	Z	QH is in the high impedance state
L	н	~	LHĵ.	х	a-h	no -change	Parallel Data is stored in the input latch. The state of the shift register is unaffected
L	L	~	×	x	a-h	ħ.	Porallet Data is stored in the input latch and loaded into the shift register
L	L	L,H,\	Ļķι	x	×	hL*	Parallel Data stored in the input latch is loaded into the shift register.
Ł	Ħ	×	5	H	×	QGM QGN	A low logic level is shifted into the shift register A high logic level is shifted into the shift register
L	н	~	~	L,H	L,H	QGN	Serial Date is shifted into the shift register and parallel Date is stored in the input latch.

*hL= the data stored in stage H of the input latch
X= don't care



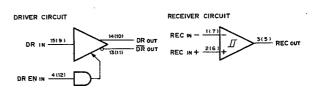
MC34051P (MOTOROLA) RS-422 DRIVER/RECEIVER - TOP VIEW -





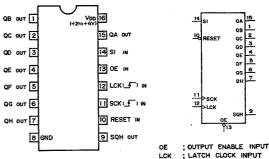
0 ; LOW LEVEL 1 ; HIGH LEVEL



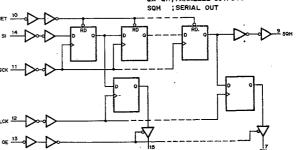


MC74HC595AF (MOTOROLA) FLAT PACKAGE TC74HC595AF (TOSHIBA) FLAT PACKAGE

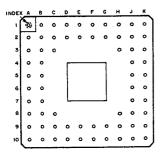
C-MOS 8-BIT SERIAL-INPUT/SERIAL- OR PARALLEL-OUTPUT SHIFT REGISTER WITH LATCHED 3-STATE OUTPUT - TOP VIEW -



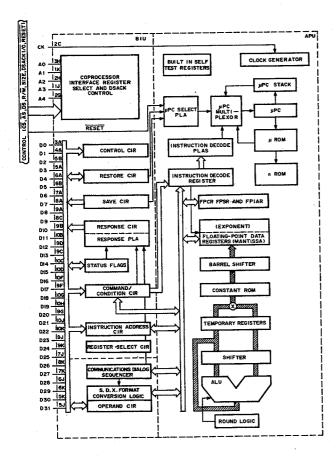
SHIFT CLOCK INPUT SHIFT-REGISTER RESET INPUT SERIAL IN QA-QH; PARALLEL OUTPUTS

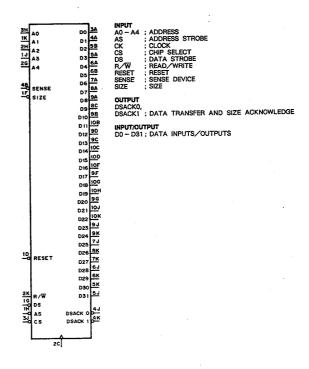


MC68882RC25 (MOTOROLA) (CLOCK FREQUENCY: 25MHz)
C-MOS FLOATING POINT COPROCESSOR
- BOTTOM VIEW -



											VC + = CCV
PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	1/0	SIGNAL	PIN No.	<u>\</u> 0	SIGNAL
1A	-	Vpp	2H	ī	A2	6A	1/0	D4	9D	1/0	D12
1B	_	VDD	2J	-	VDD	6B	1/0	D5	9E	-	Vpp
10	_	GND	2K	_	R/W	6J	1/0	D28	9F	1/0	D17
1D	$\overline{}$	RESET	ЗА	1/0	DO	6K	0	D29	9G	1/0	D20
1E	-	NC	3B	-	GND	7A	0	D6	9H	-	GND
1F	T	SIZE	30	_	GND	7B	-	GND	9,1	1/0	D23
1G	1	DS	зн	T	AO	7J	1/0	D25	9K	1/0	D24
1H	1	AS	33	1	CS	7K	1/0	D27	10A		GND
1J	1	. A3	3K	-	GND	A8	1/0	D7	10B	1/0	D11
1K	T	A1	4A	1/0	D1	8B	[-	VDD	10C	1/0	D14
2A	-	GND	48	1/0	SENSE	8C	1/0	D9	10D	1/0	D15
2B	-	GND	4J	0	DSACK0	8H	<u> </u>	VDD	10E	-	GND
2Ç	T	CK	4K	0	DSACK1	8,1	-	GND	10F	1/0	D16
2D	-	GND	5A	1/0	D3	8K	1/0	D26	10G	1/0	D18
2E	-	Vpb	5B	1/0	D2	9A	1/0	D8	10H	1/0	D19
2F	-	GND	5J	1/0	D31	9B	1/0	D10	10J	1/0	D21
2G	1	A4	5K	1/0	D30	90	1/0	D13	10K	1/0	D22

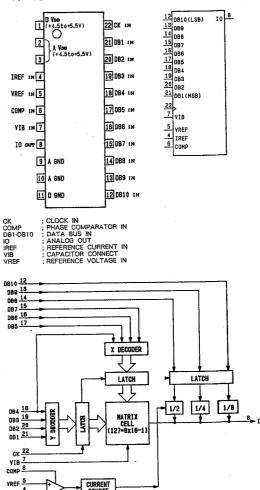




MN6557AS (MATSUSHITA) FLAT PACKAGE

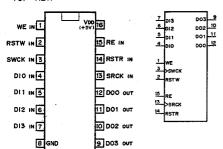
C-MOS 10-BIT D/A CONVERTER FOR IMAGE PROCESSING

- TOP VIEW -

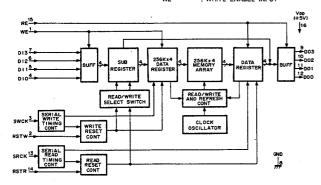


MSM514221A-4RS (OKI)

C-MOS 1M (262263x4)-BIT DYNAMIC SERIAL ACCESS MEMORY - TOP VIEW -



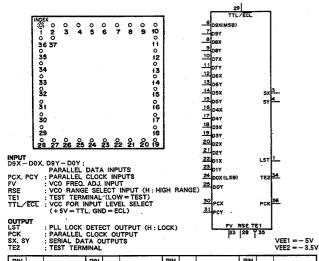
DIO - DI3 DOO - DO3 RE RSTR RSTW SRCK SWCK WE : DATA INPUTS
: DATA OUTPUTS
: READ ENABLE INPUT
: READ RESET INPUT
: WRITE RESET INPUT
: READ CLOCK INPUT
: WRITE CLOCK INPUT
: WRITE ENABLE INPUT



SBX1601A (SONY)

8- OR 10-BIT PARALLEL-TO-SERIAL CONVERTER - BOTTOM VIEW -

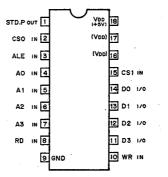
BOTTOM VIEW -

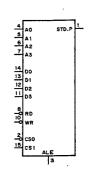


PIN NO.	w	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1	0	LST	11		D7Y	21	1	D2Y	31	1	PCY
2	-	GND	12	1	D6X	22		D1X.	32	-	GND
3	0	SX	13	1	D6Y	23		D1Y	33	_	FV
4	0	SY	14	1	D5X	24	1	DOX(LSB)	34	0	TE2
5	-	GND	15	T	D5Y	25	1	D0Y	35	_	TE1
6	1	D9X(MSB)	16	1	D4X	26	-	VEE1	36	0	PCK
7	1	D9Y	17.	1	- D4Y	27	-	VEE2	37	-	NC
8	1	D8X	18	1	D3X	28	1.	RSE			
9	1	D8Y	19		D3Y	29	-	TTL/ECL	Г		
10		D7X	20		D2X	30		PCX	1		

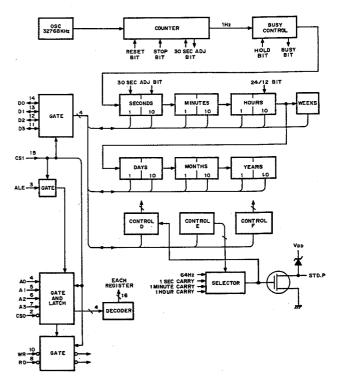
RTC-62421B (EPSON)

C-MOS REAL TIME CLOCK - TOP VIEW -



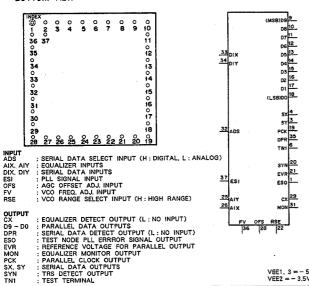


AO - A3 ; ADDRESS BUS INPUTS
ALE ; ADDRESS LATCH ENABLE INPUT
CSO, CSI; CHIP SELECT INPUTS
DO - D3; DATA BUS INPUTS/CUTPUTS
RD ; READ INPUT
STD.P ; STANDARD PULSE OUTPUT
WR ; WRITE INPUT



SBX1602A (SONY)

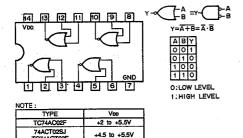
8- OR 10-BIT SERIAL-TO-PARALLEL CONVERTER - BOTTOM VIEW -



NI		IES! IERM	INAL								LLL - 0.0
PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL	PIN NO.	1/0	SIGNAL
1	0	ESO	11	0	D7	21	0	EVR	31	0	MON
2	-	GND	12	0	D6	22		RSE	32	-	ADS
3	٥	SY	13	0	D5	23	Γ- Ι	VEE3	33		DIX
4	0	SX	14	0	D4	24	-	GND	34		DIY
5	-	GND	15	0	D3	25	1.	AIY	35	0	DPR
6	0	TN1	16	0	D2	26	ī	AIX	36	-	FV
7	-	VEE1	17	0	D1	27	-	GND	37		ESI
8	-	VEE2	18	0	D0(LSB)	28	1	OFS			
9	0	D9(MSB)	19	0	PCK	29	0	CX			-
10	0	D8	20	0	SYN	30	-	GND			

SN74HC00ANS (TI) FLAT PACKAGE TC74AC00F (TOSHIBA) FLAT PACKAGE

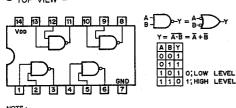
C-MOS QUAD 2-INPUT NAND GATES - TOP VIEW -



+2 to +6V

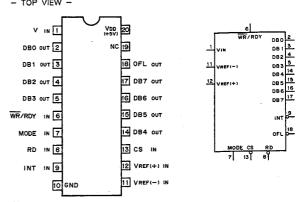
SN74HC02ANS (TI) FLAT PACKAGE TC74AC02F (TOSHIBA) FLAT PACKAGE C-MOS QUAD 2-INPUT NOR GATES - TOP VIEW -

OTHER TYPES



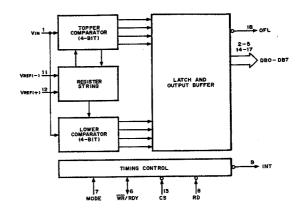
TYPE	Voo
TC74AC00 TYPE	+2 to +5.5V
MC74HCT00N	+5V
74ACT00 TYPE	+4.5 to +5.5V
OTHER TYPES	+2 to +6V

SM6103S (NPC) FLAT PACKAGE C-MOS 8-BIT A/D CONVERTOR - TOP VIEW -



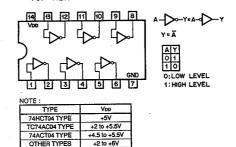
CS ; CHIP SELECT INPUT
DBO — DBT; DIGITAL DATA OUTPUTS
INT : INTERRUPT OUTPUT
MODE : MODE SELECT INPUT (WR-RD MODE/RD MODE)
OFL : OVERFLOW OUTPUT
RD : READ INPUT
VIN : ANALOG VOLTAGE INPUT
VREF (+) : TOP REFERENCE VOLTAGE INPUT
VREF (-) : BOTTOM REFERENCE VOLTAGE INPUT
WR/RDY : WR-RD MODE → WR INPUT
RD MODE → RDY INPUT
RD MODE → RDY INPUT

VEE1, 3 = -5V VEE2 = -35V

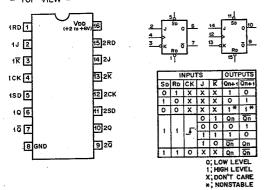


SN74HC04ANS (TI) FLAT PACKAGE TC74AC04F (TOSHIBA) FLAT PACKAGE

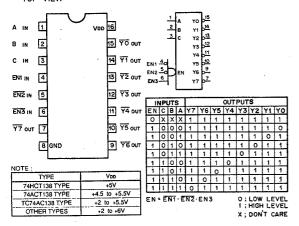
C-MOS HEX INVERTERS - TOP VIEW -



SN74HC109ANS (TI) FLAT PACKAGE C.MOS J-K FLIP-FLOP WITH DIRECT SET/RESET - TOP VIEW -

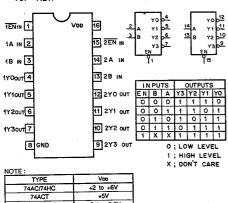


SN74HC138ANS (TI) FLAT PACKAGE TC74AC138F (TOSHIBA) FLAT PACKAGE C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER -- TOP VIEW --

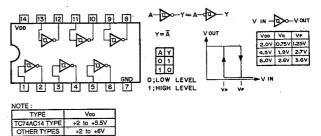


SN74HC139ANS (TI) FLAT PACKAGE SN74HCT139ANS (TI) FLAT PACKAGE TC74AC139F (TOSHIBA) FLAT PACKAGE TC74ACT139F (TOSHIBA) FLAT PACKAGE

C-MOS DUAL 2-TO-4 DECODER/DEMULTIPLEXER - TOP VIEW -

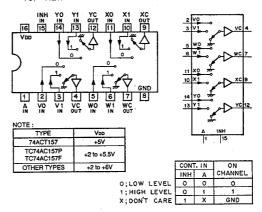


SN74HC14ANS (TI) FLAT PACKAGE C-MOS HEX SCHMITT TRIGGER INVERTERS - TOP VIEW --



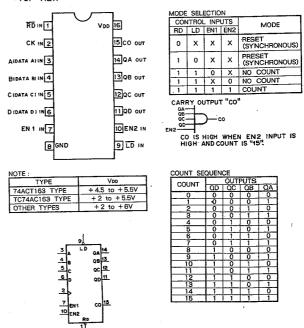
SN74HC157ANS (TI) FLAT PACKAGE TC74AC157F (TOSHIBA) FLAT PACKAGE TC74ACT157F (TOSHIBA) FLAT PACKAGE

C-MOS QUAD 2-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER - TOP VIEW -



SN74HC163ANS (TI) FLAT PACKAGE TC74AC163F (TOSHIBA) FLAT PACKAGE

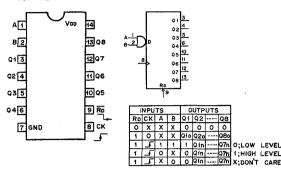
C-MOS PRESETTABLE SYNCHRONOUS 4-BIT BINARY COUNTER — TOP VIEW —

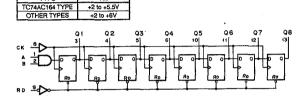


TC74AC139

SN74HC164ANS (TI) FLAT PACKAGE TC74AC164F (TOSHIBA) FLAT PACKAGE

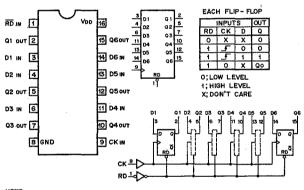
C-MOS 8-BIT SERIAL-IN/PARALLEL-OUT SHIFT REGISTER - TOP VIEW -





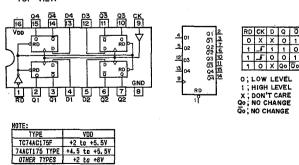
SN74HC174ANS (TI) FLAT PACKAGE TC74AC174F (TOSHIBA) FLAT PACKAGE

C-MOS D-TYPE FLIP-FLOP WITH RESET - TOP VIEW -



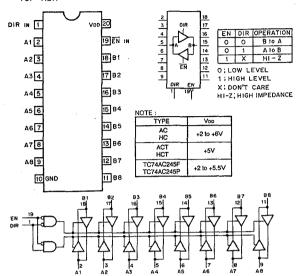
IOTE:	
TYPE	Voo
74AC	+3.3 to +5V
74ACT	+5V
74HC	+2 to +6V
TC74AC174	+2 to +5.5V

SN74HC175ANS (TI) FLAT PACKAGE
C-MOS QUAD D-TYPE FLIP-FLOPS WITH RESET



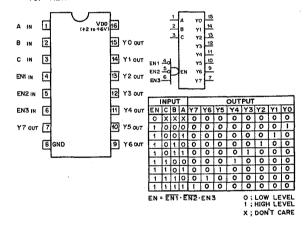
SN74HC245ANS (TI) FLAT PACKAGE TC74AC245F (TOSHIBA) FLAT PACKAGE TC74AC245P (TOSHIBA) TC74AC7245F (TOSHIBA) FLAT PACKAGE

C-MOS BILATERAL BUS TRANSCEIVERS WITH 3-STATE OUTPUTS — TOP VIEW —



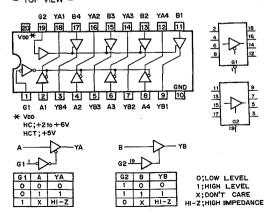
SN74HC238ANS (TI) FLAT PACKAGE

C-MOS 3-TO-8 LINE DECODER/DEMULTIPLEXER
- TOP VIEW -



SN74HC241ANS (TI)

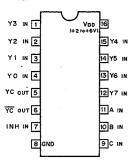
C-MOS 3-STATE NONINVERTING BUFFER/LINE DRIVER/LINE RECEIVER — TOP VIEW —

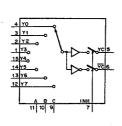


SN74HC251ANS (TI) FLAT PACKAGE

C-MOS 8-LINE-TO-1-LINE DATA SELECTOR/MULTIPLEXER WITH 3-STATE OUTPUT

- TOP VIEW -



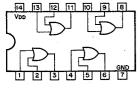


CC	NTRO	OUT			
С	В	A	INH	YC	YC
X	Х	X	.1	Hi-Z	
0	0	0	0	YO	9
٥	0	1	0	YI	7
0	1	0	0	Y2	Y2
٥	1	1	0	Y3	Y3
1	0	0	0	Y4 .	Y4
1	0	1	0	Y5	¥5
1	1	0	0	Y6	¥6
1	1	1	0	Y7	77

O ; LOW LEVEL 1 ; HIGH LEVEL HI-Z; HIGH IMPEDANCE

SN74HC32ANS (TI) FLAT PACKAGE TC74AC32F (TOSHIBA) FLAT PACKAGE

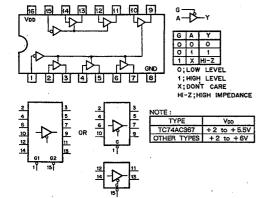
C-MOS QUAD 2-INPUT OR GATES



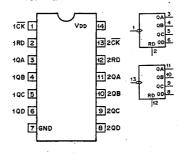


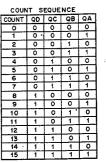
NOTE:	
TYPE	Voo
TC74AC32 TYPE	+2 to +5.5V
OTHER TYPES	+2 to +6V

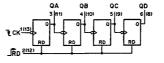
SN74HC367ANS (TI) FLAT PACKAGE TC74AC367F (TOSHIBA) FLAT PACKAGE C-MOS BUS DRIVER WITH 3-STATE OUTPUTS - TOP VIEW -



SN74HC393ANS (TI) FLAT PACKAGE C-MOS DUAL 4-BIT BINARY COUNTER - TOP VIEW -





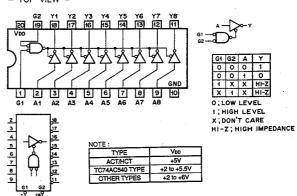


SD.	QD	QC	QB	QA
	0	0	0	0
,		COUN	T	

NOTE:	
TYPE	Voo
74AC	+2 to 5.5V
74HC	+2 to 6V

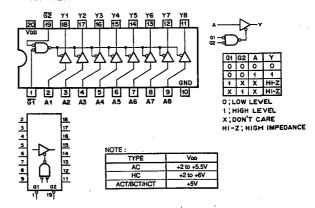
SN74HC540ANS (TI) FLAT PACKAGE TC74AC540F (TOSHIBA) FLAT PACKAGE

C.MOS 3-STATE INVERTING BUFFER/LINE DRIVER/LINE RECEIVER - TOP VIEW -



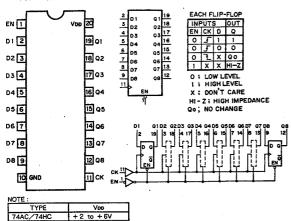
SN74HC541ANS (TI) FLAT PACKAGE TC74AC541F (TOSHIBA) FLAT PACKAGE TC74ACT541F (TOSHIBA) FLAT PACKAGE

C-MOS BUFFERS AND LINE DRIVERS WITH 3-STATE OUTPUTS - TOP VIEW -



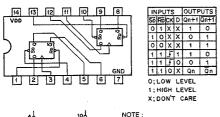
SN74HC574ANS (TI) FLAT PACKAGE SN74HCT574ANS (TI) FLAT PACKAGE TC74AC574F (TOSHIBA) FLAT PACKAGE TC74ACT574F (TOSHIBA) FLAT PACKAGE

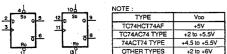
C-MOS 3-STATE D-TYPE EDGE-TRIGGERED FLIP-FLOP - TOP VIEW -



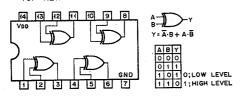
SN74HC74ANS (TI) FLAT PACKAGE TC74AC74F (TOSHIBA) FLAT PACKAGE TC74ACT74F (TOSHIBA) FLAT PACKAGE

C-MOS DUAL D-TYPE FLIP-FLOPS WITH DIRECT SET/RESET



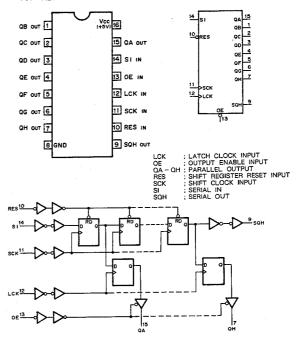


SN74HC86ANS (TI) FLAT PACKAGE TC74AC86F (TOSHIBA) FLAT PACKAGE TC74HCT86AF (TOSHIBA) FLAT PACKAGE C-MOS QUAD EXCLUSIVE OR GATES - TOP VIEW -

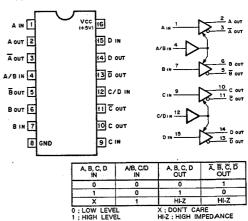


NOTE:						
TYPE	Voo					
TC74AC86 TYPE	+2 to +5.5V					
OTHER TYPES	+2 to +6V					

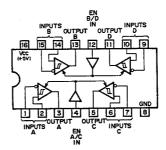
SN74LS594N (TI) 8-BIT SHIFT REGISTER/LATCH - TOP VIEW -



SN75ALS194N (TI)
QUAD RS-422 LINE DRIVER WITH 3-STATE OUTPUTS
- TOP VIEW -



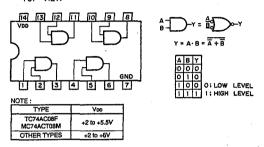
SN75ALS195J (TI)
QUAD RS-422/423 LINE RECEIVER WITH 3-STATE OUTPUTS
- TOP VIEW -



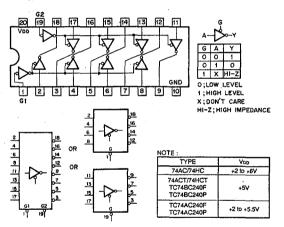
TC4S66F (TOSHIBA) C-MOS BILATERAL ANALOG SWITCH - TOP VIEW -



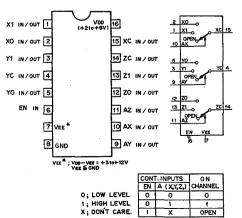
TC74AC08F (TOSHIBA) FLAT PACKAGE C-MOS QUAD 2-INPUT AND GATES



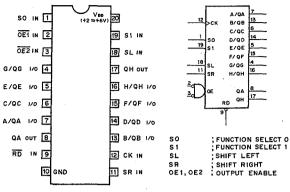
TC74AC240F (TOSHIBA) FLAT PACKAGE C-MOS 3-STATE INVERTER/LINE DRIVER - TOP VIEW -



TC74HC4053AF (TOSHIBA) FLAT PACKAGE C-MOS TRIPLE 2-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



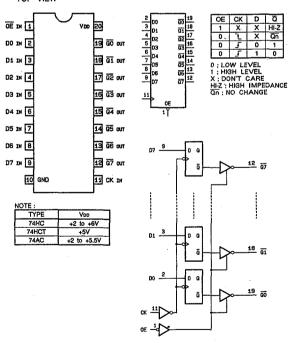
TC74AC299F (TOSHIBA) FLAT PACKAGE C-MOS 8-BIT UNIVERSAL SHIFT/STORAGE REGISTER



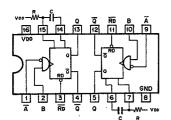
		INPUTS								INPUTS/OUTPUTS						OUTPUTS		
MODE	Г	Г	FUN	CTION	EN	ABLE	SH	IIFT	A	В.	C	D	Ε	F	G	н		
	RD	СК	50	S1	QE 1	0E2	SL	SR	OΑ	οв	QC.	QD	0E	QF	QG	QH	QA.	QH
CLEAR	٥	×	0	×	0	0	×	x	٥	Ö	0	0	0	0	0	0	0	0
CLEAR	٥	×	x	0	0	0	×	×	0	0	0	0	0	٥	0	0	0	0
HOLD	1	×	0	0	0	0	×	x	QAo	QBo	QC ₀	QDo	QEo	QF ₀	QG ₀	QHo	QAo	он
HOLO	1	0	×	×	0	0	x	x	QAo	QB o	ac.	QDo	QEo	QFo	960	оно	QAo	QH
SHIFT	1	5	1	٥	0	0	×	1	1	QAn	QBn	QCn	QDn	QEn	QFn	QGn	1	QG
RIGHT	1	5	[1	0	0	0	×	0	٥	QAn	QBn	QCn	Q Dn	QEn	QFn	QGn	0	QG
SHIFT	1	5	0	1	0	0	1	×	QBn	QCn	QOn	QEn	OFn	QGn	QHn	1	QBn	1
LEFT	1	5	0	1	١.	0	0	x	QBn	QCn	QDn	QEn	QFn	Q Gn	QHn	0	QBn	٥
LOAD	1	7	1	1	×	x	x	×	a	ь	6	d		1	0	h		'n
DUTPUT	×	х	x	×	1	x	х	x			н	GH-I	MPE	DANG	E		QA	QH
ENABLE	x	x	x	×	Ιx	1	x ·	x	(INT	ERNA		GIC				TED)	QA	ОН

a···h=The level of the steady-state input at inputs Athrough H respectively.
O;LOW LEVEL
1;HIGH LEVEL
X;DON'T CARE

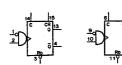
TC74AC564F (TOSHIBA) FLAT PACKAGE C-MOS D-TYPE FLIP-FLOPS WITH 3-STATE OUTPUTS - TOP VIEW -



TC74HC123AF (TOSHIBA) FLAT PACKAGE
C-MOS DUAL RETRIGGERABLE MONOSTABLE MULTIVIBRATORS
- TOP VIEW -

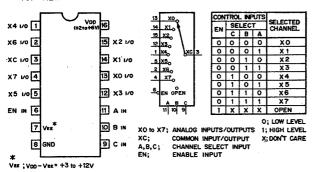


i	11	NPU	Т	OUT	PUT				
i	RD	Α	В	0	O				
	0	х	X	0	1				
	1	1	×	0	1				
	7	X	0	0	1				
	1	0	7	5 7.	Ľ	O ; LOW LEVE			
	1	T	1	7	J.	1; HIGH LEVE			
	4	0	7	5 L	Ľ	X; DON'T CARE			
	OUTPUT PHI SE WINTH : 0.46CP								

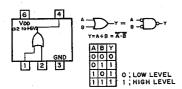


NOTE:	
TYPE	Voo
TC74HCT123AF	+5V
OTHER TYPES	+2 to +6V

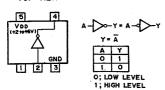
TC74HC4051AF (MOTOROLA) FLAT PACKAGE C-MOS 8-CHANNEL ANALOG MULTIPLEXER/DEMULTIPLEXER - TOP VIEW -



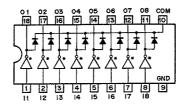
TC7S32F (TOSHIBA) FLAT PACKAGE C-MOS 2-INPUT OR GATE - TOP VIEW -

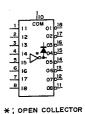


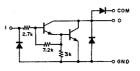
TC7SU04F (TOSHIBA) FLAT PACKAGE C-MOS INVERTER - TOP VIEW -



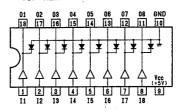
TD62083F (TOSHIBA) FLAT PACKAGE DARLINGTON DRIVER - TOP VIEW -

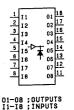


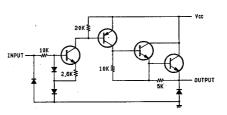




TD62783F (TOSHIBA) FLAT PACKAGE OCTAL DRIVER - TOP VIEW -



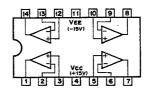




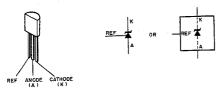
TL082CPS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(JFET INPUT)
- TOP VIEW -



TL084CNS (TI) FLAT PACKAGE
OPERATIONAL AMPLIFIER
(J FET-INPUT)
- TOP VIEW -



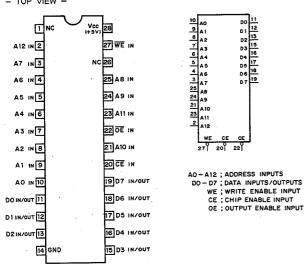
TL431CLP (TI)
ADJUSTABLE PRECISION SHUNT REGULATOR

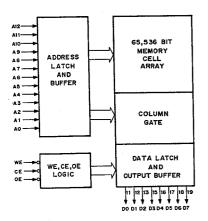


TLC372CPS (TI) FLAT PACKAGE C-MOS COMPARATOR - TOP VIEW -



UPD28C64C-20 (NEC)
C-MOS 64K (8Kx8) ELECTRICALLY ERASABLE PROM
- TOP VIEW -

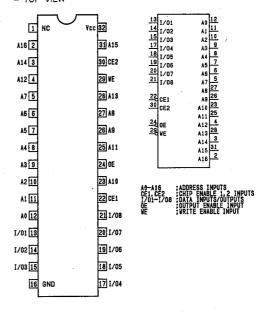


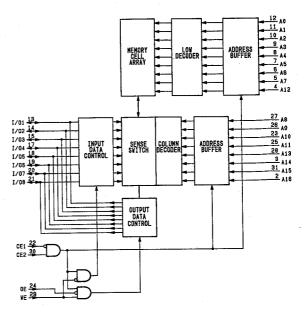


UPC4558G2 (NEC) FLAT PACKAGE DUAL OPERATIONAL AMPLIFIER - TOP VIEW -



UPD431000AGW-70L (NEC) FLAT PACKAGE C-MOS 1M (128Kx8)-BIT STATIC RAM - TOP VIEW -



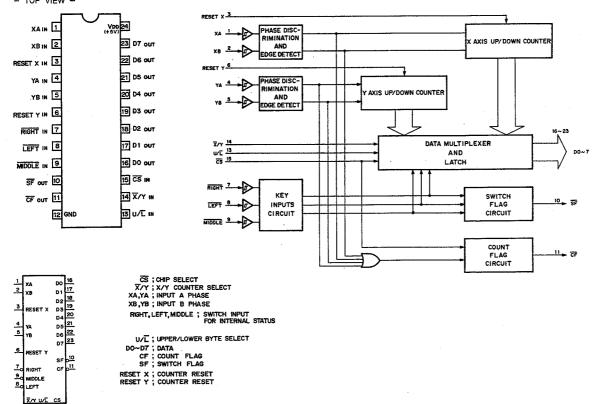


8-53

TMP82C79M-2 (TOSHIBA) FLAT PACKAGE C.MOS PROGRAMABLE KEY-BOARD/DISPLAY INTERFACE DEVICE - TOP VIEW -38 RL0 39 RL1 1 RL2 2 RL3 5 RL4 7 RL6 8 RL7 1,2,5-8,38,39 - RL7 Vec (+7V) 40 RL2 IN SHIFT 36 CNTL/STB 37 39 RL 1 :N RL3 IN 2 KEY-BOARD DE-BOUNCE CONTROL CIRCUIT RETURN BUFFER 38 RLOIN CLK IN 3 FIFO/ SENSOR STATUS 37 CNTL/STB IN IRQ 4 RL4 IN 5 36 37 SHIFT CNTL/STB 8x8 FIFO/ SENSO RAM RL5 IN 6 35 SL 3 OUT INPUT/ OUTPUT CONTRO RL6 IN 7 34 SL 2 OUT 10 RD 11 WR 21 AO 22 CS 33 SL 1 OUT TIMING CONTROL CIRCUIT 32 SLO 0UT RESET IN 9 TIMING REGISTER 12 DB0 13 DB1 14 DB2 15 DB3 16 DB4 17 DB5 18 DB6 19 DB7 RD IN 10 31 OUT BO OUT A0 26 OUT A2 25 OUT A3 31 OUT B0 30 OUT B1 29 OUT B2 28 WR IN 11 30 OUT B1 29 OUT B2 DBO 1/0 12 16 x 8 PRESSION EXPRESSION REGISTER DB1 1/0 13 28 OUT 83 27 OUT AO DB2 1/0 14 26 OUT A1 EXPRESSION ADDRESS REGISTER DB4 170 16 25 OUT A2 24 OUT A3 23 BD OUT DB6 1/0 18 DB7 1/0 19 21 AO IN ENCODE EO GND COMMAND/DATA CONTROL INPUT DISPLAY BLANKING OUTPUT CLOCK INPUT CONTROL/STROBE INPUT CHIP SELECT INPUT DATA BUS INPUT/OUTPUT INTERRUPT REQUEST OUTPUT DBO-DB7 IRQ OUT AO-A3 OUT BO-B3 RD ; 16x4 BIT EXPRESSION REFRESH REGISTER TBO-B3 RD; RRAD STROBE INPUT RSSET; RESET INPUT RSSET; REFUR LINE INPUT SHIPT; SHIPT INPUT SLO-SL3; SCANNING LINE OUTPUT WR; WAITE STROBE INPUT **53**] DECODE READ S 3 AO, CS I RA EXPRESSION tRD BLANK BLANK AO, CS 490µS RLO RL1 RL2 RL3 RL4 RL5 RL6 RL7 RL0 RL1 RL2 RL3 RL4 RL5 RL6 RL7 CLOCK

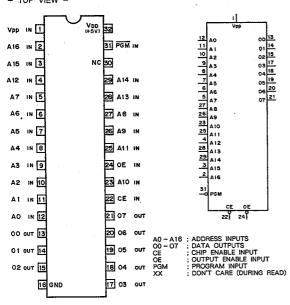
DVS-6000/6000C

UPD4701AC (NEC) C-MOS INCREMENTAL ROTARY ENCODER - TOP VIEW -



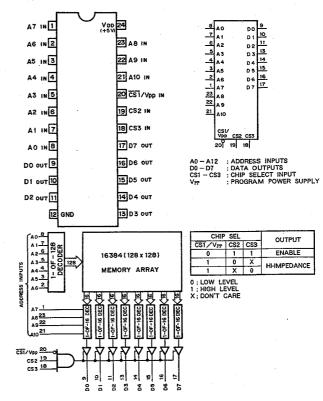
WS27C010L-12D (WAFERSCALE)

C-MOS 1M (131,072x8)-BIT UV ERASABLE PROM - TOP VIEW -



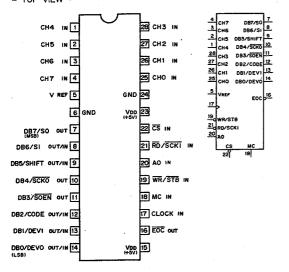
WS57C291B-35T (WAFERSCALE)

C-MOS 16K-BIT (2048x8) HIGH SPEED ERASABLE P-ROM - TOP VIEW -



UPD7004C (NEC)

C-MOS 10-BIT SUCCESSIVE COMPARATOR TYPE A/D CONVERTER - TOP VIEW -



AO ; CONTROL ADDRESS INPUT CHO~7; ANALOG INPUT CODE ; CODE SELECT (2'S COMPLEMENT/ BINARY) INPUT

CS ; CHIP SELECT INPUT
DBO~7; DATA BUS INPUT/OUTPUT
DEVO,
DEVI ; CLOCK RATE SELECT INPUT

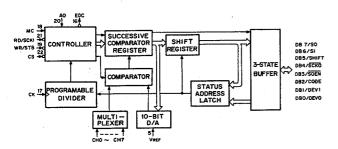
CONVERSION ENDING SIGNAL OUTPUT MODE SELECT INPUT READ SIGNAL INPUT

; SERIAL CLOCK INPUT SCKO SHIFT SELECT (LSB FIRST/ MSB FIRST) SERIAL INPUT

SO

SERIAL OUTPUT SERIAL OUTPUT ENABLE OUTPUT ADDRESS WRITE STROBE SIGNAL INPUT STB

; WRITE SIGNAL INPUT



MC	MODE
0	SERIAL
1	PARALLEL

PARA	PARALLEL MODE									
cs	WR	RD	AO	MODE						
1	X	X	X	HIGH IMPEDANCE						
0	1	1	X	HIGH IMPEDANCE						
0	0	1	٥	*1 ANALOG CHANNEL SELECT						
0	٥	1	1	#2 CODE SELECT/ #3 CLOCK RATE SELECT						
0	1	0	0	#4 LOW-BYTE DATA OUTPUT						
0	1	0	1	#4 HIGH-BYTE DATA OUTPUT						
0	0	0	X	INHIBIT						

O; LOW LEVEL

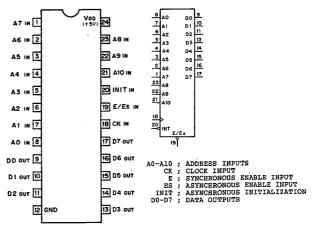
HANNEL
SELO MPX CHAN.
о сно
1 CH1
O CH2
1 CH3
0 CH4
1 CH5
O CH6
1 CH7

*2 C	ODE SELECT	#3 CLOCK RATE SELECT							
CODE	CODE SELECT	DEV1	DEV 0	CLOCK RATE					
0	BINARY DATA	0	0	1					
1	2'S COMPLEMENT DATA	0	1	1/2					
	1	1	0	1/4					
			1	1/8					

WS57C45-35T (WAFERSCALE)

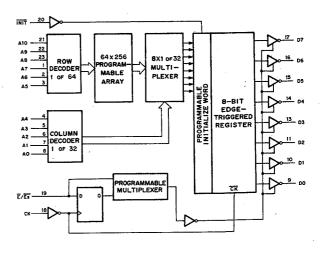
C-MOS 16K (2048x8)-BIT EPROM (WITH REGISTER)

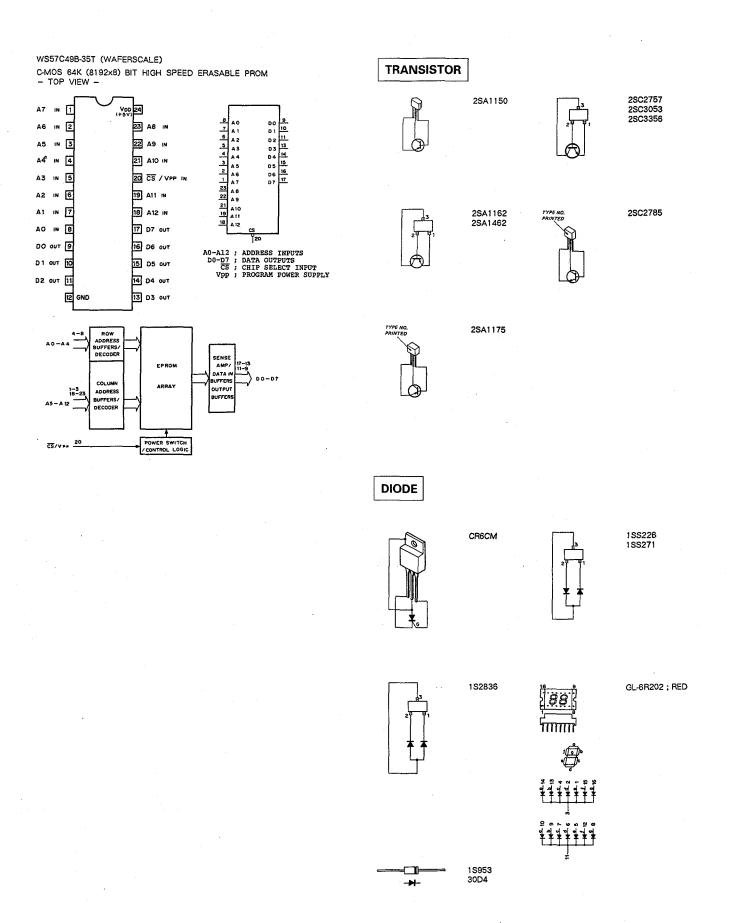
TOP VIEW -

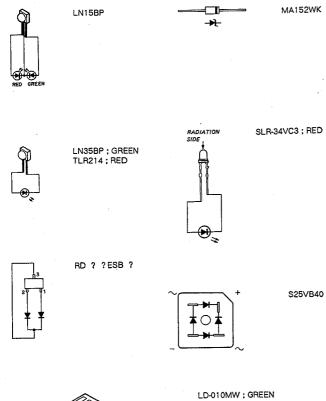


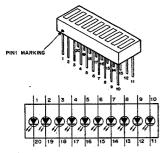
Al	A2	CK	E/ES	INIT	OUTPUTS	FUNCTION
Х	X	X	0	1	DATA OUT	READ
X	X	X	1	1	HI-Z	OUTPUT DISABLE
x	х	0	1	Vpp	DATA IN	PGM
X	Х	1	0	Vpp	DATA OUT	PGM VERIFY
X	Х	1	1	Vpp	HI-Z	PGM INH
X	X	0	1	Vpp	DATA IN	INTELLIGENT PGM
qqV	1	0	1	Vpp	HI-Z	PGM SYNCH ENABLE
Vpp	0	0	1	Vpp	DATA IN	PGM INITIAL BYTE
X	Х	Vpp	1	0	ZEROS	BLANK CHECK ZEROS

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE
VPP ; PROGRAM POWER SUPPLY
(+13V to +14V)



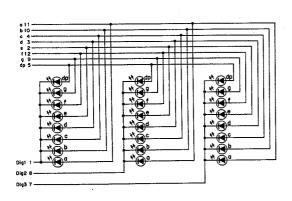








LB-203ML; GREEN
TRIPLE 7-SEGMENT LED
- TOP VIEW -



DVS-6000/6000C

SECTION 9 SPARE PARTS

9-1. NOTES ON SPARE PARTS

(1) Safety Related Components Warning

Components marked with \triangle on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation.

Replace these components with Sony parts whose part numbers appear in this manual or in service bulletins and service manual supplements published by Sony.

(2) Standardization of Parts

Repair parts supplied from Sony Parts Center may not be always identical with the parts which actually in use due to "accommodating the improved parts and/or engineering changes" or "standarzation of genuine parts".

This manual's exploded views and electrical spare parts list are indicating the part numbers of "the standardized genuine parts at present".

(3) Stock of Parts

Parts marked with "o" SP (Supply Code) column of the spare parts list are not normally required for routine service work. Orders for parts marked with "o" will be processed, but allow for additional delivery time.

(4) Units for Capacitors, Inductors and Resistors

The following units are assumed in schematic diagrams, electrical parts list and exploded views unless otherwise specified.

 $\begin{array}{ll} \text{Capacitors} : \ \mu\text{F} \\ \text{Inductors} & : \ \mu\text{H} \\ \text{Resistors} & : \ \Omega \end{array}$

補修用部品注意事項

(1) 安全重要部品

回路図、分解図、電気部品表中、 ▲ 印の部品 は安全性を維持するために重要な部品です。 従ってこれらの部品を交換するときには必ず指 定の部品と交換して下さい。

(2) 部品の共通化

ソニーから供給される部品セットに実装されているものと異なることがあります。これは部品の共通化、改良等によるものです。

分解図や電気部品表には現時点での共通化された部品 が記載されています。

(3) 部品の在庫

部品表のSP (Supply code) 欄に o で示される部品は交換 頻度が低い部品ですので在庫していないことがあり、 納期が長くなることがあります。

(4) コンデンサー、インダクター、抵抗の単位 回路図、分解図、電気部品表中、特に明記したものを 除き、下記の単位は省略されています。

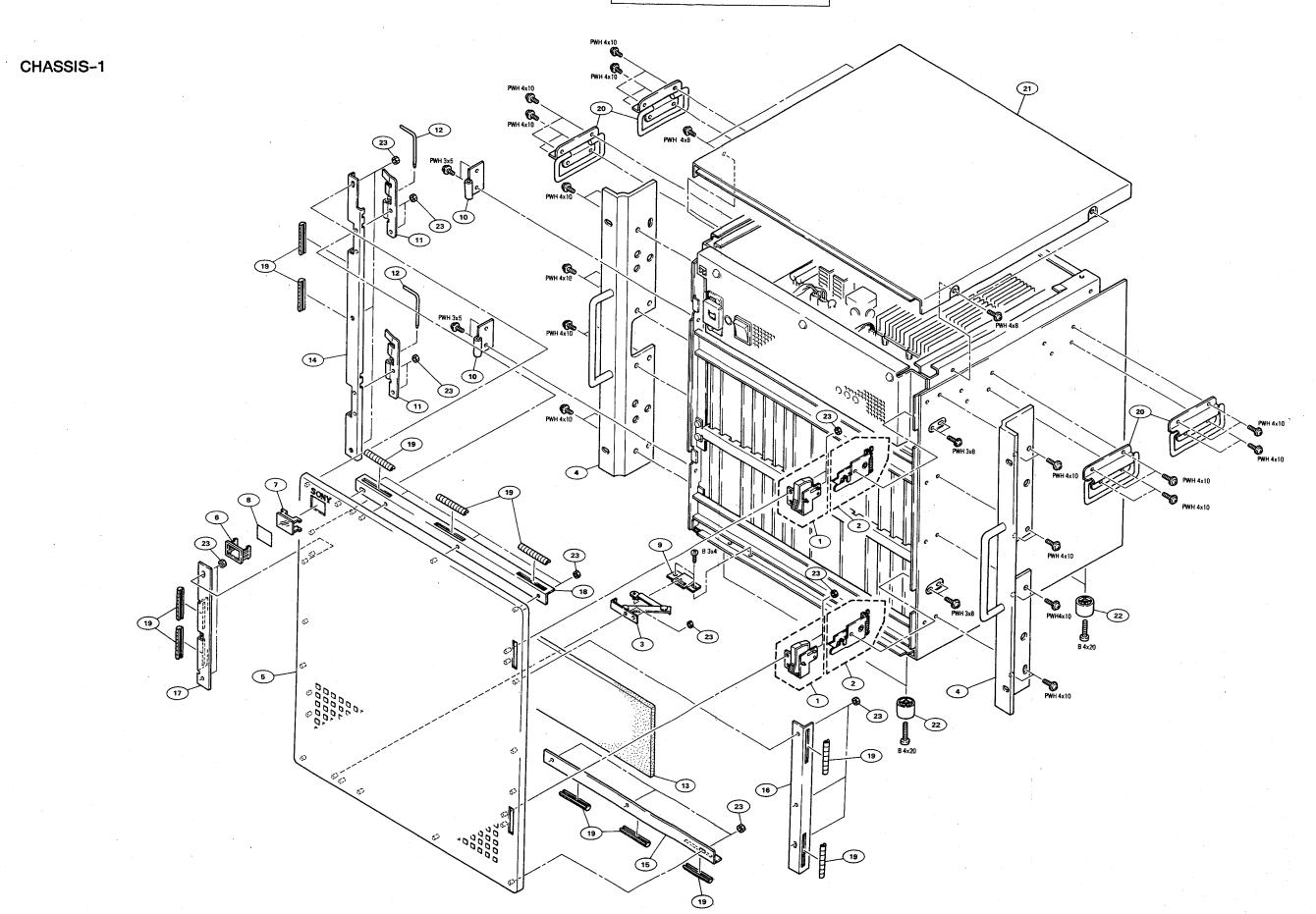
コンデンサー: μF インダクター: μH 抵抗 : Ω

9-2. DVS-6000/6000C EXPLODED VIEWS AND PARTS

CHASSIS 1

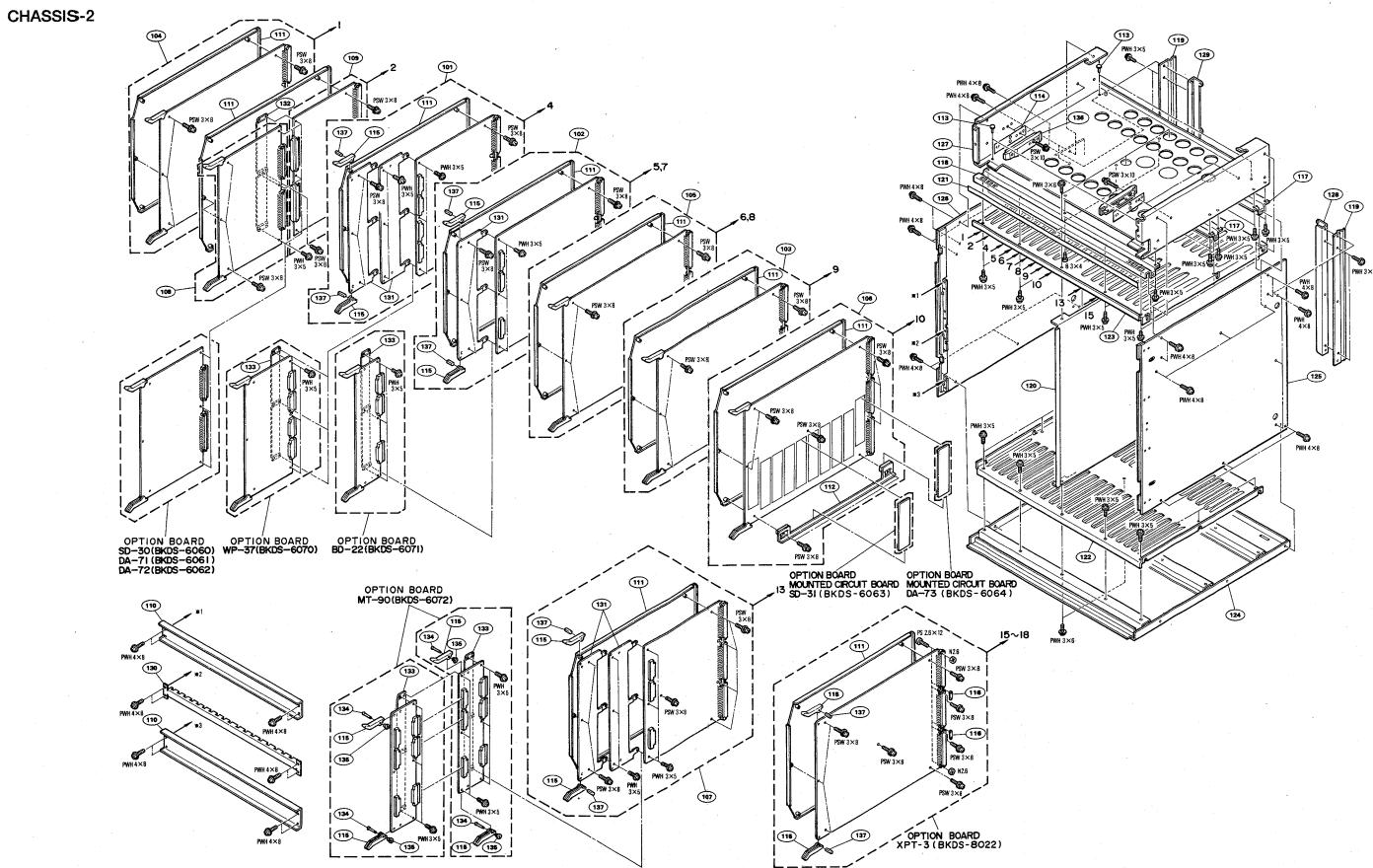
No.	Part No. SP Description
1	A-6279-484-D O HANDLE ASSY, DOOR
2	K-2127-216-1 O LOCK ASSY, DOOR
3	K-3165-067-1 O STOPPER ASSY
4	K-3165-221-1 O ANGLE ASSY (10U), RACK
5	K-3166-937-1 O PANEL ASSY, FRONT
6	2-139-192-01 o FRAME, INDICATOR WINDOW
7	2-139-193-01 o WINDOW, INDICATOR
8	2-249-353-00 o COVER, LAMP
9	3-166-131-01 o TABLE (H), STAY
10	3-166-133-01 o HINGE (H)
11	3-166-135-01 o HINGE (F)
12	3-166-136-01 o PIN, HINGE
13	3-166-203-03 o FILTER
14	3-166-223-02 o PLATE, SIDE, LEFT, PANEL
15	3-175-256-01 o BRACKET (4), SNAP FINGER
16	3-175-257-01 o BRACKET (2), SNAP FINGER
17	3-175-258-01 o BRACKET (3), SNAP FINGER
18	3-175-259-01 o BRACKET (1), SNAP FINGER
19	3-175-260-01 o FINGER, SNAP
20	3-176-177-01 o HANDLE
21	3-179-171-01 o PLATE, TOP
22	3-642-656-01 s FOOT
23	4-334-513-00 s NUT, NYLON

CHASSIS-1 CHASSIS-1



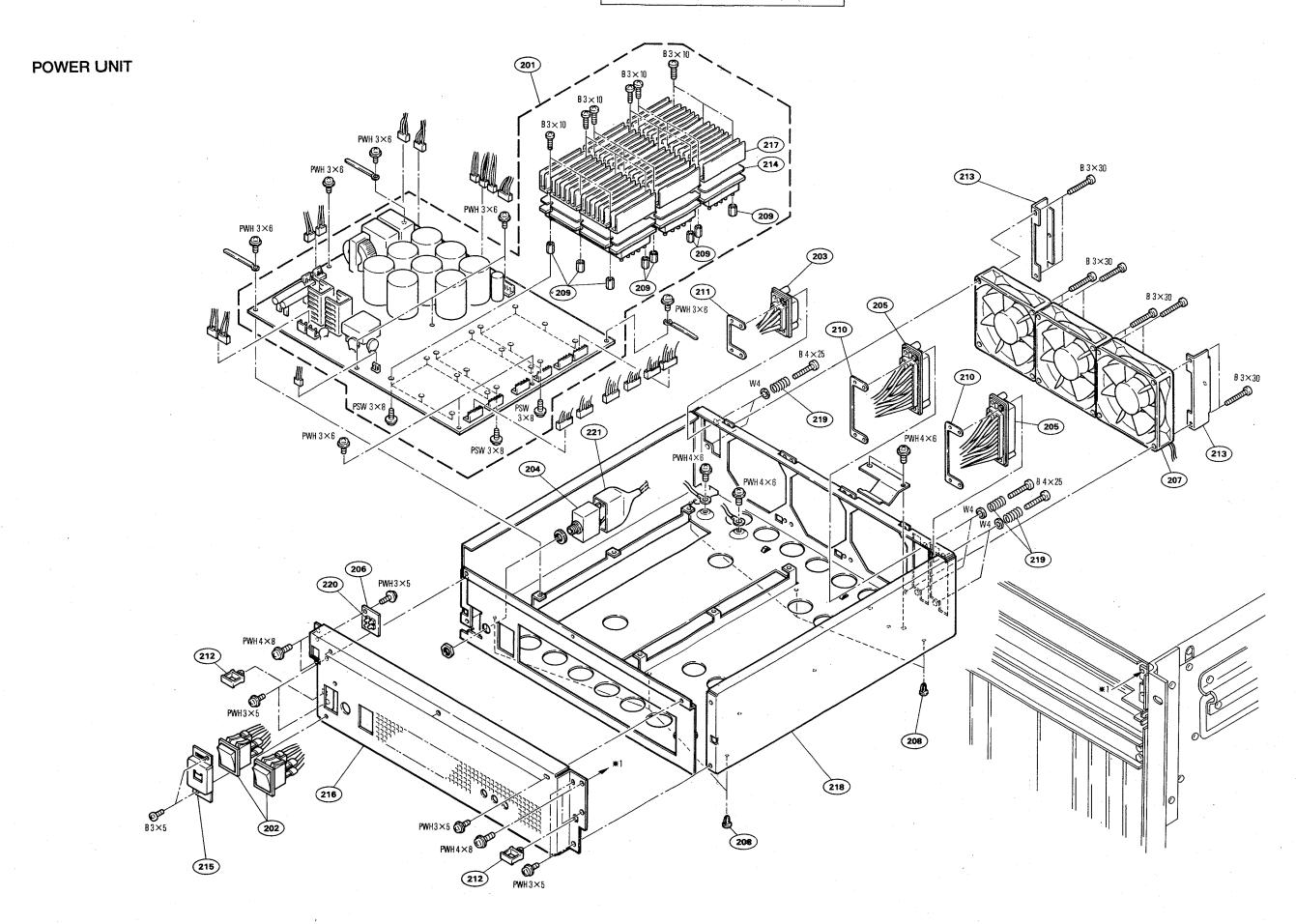
CHASSIS 2

		,	
No.	Part No.	SP	Description
101	A-8271-806-A	0	MOUNTED CIRCUIT BOARD, WKG-10 OPTION BOARD BKDS-6070:WP-37
102	A-8271-807-A	0	MOUNTED CIRCUIT BOARD, KPC-5 OPTION BOARD BKDS-6071:BD-22
103	A-8271-808-A	0	MOUNTED CIRCUIT BOARD, DSK-9
	A-8271-890-A	0	(FOR DVS-6000) MOUNTED CIRCUIT BOARD, DSK-9A (FOR DVS-6000C)
104 105	A-8271-809-A A-8271-810-A	0	MOUNTED CIRCUIT BOARD, CPU-147 MOUNTED CIRCUIT BOARD, MIX-8 (FOR DVS-6000)
	A-8271-889-A	0	MOUNTED CIRCUIT BOARD, MIX-8A (FOR DVS-6000C)
106	A-8271-811-A	0	MOUNTED CIRCUIT BOARD, OUT-3 OPTION BOARD BKDS-6063:SD-31 BKDS-6064:DA-73
107	A-8271-812-A	0	MOUNTED CIRCUIT BOARD, MAT-4 OPTION BOARD BKDS-6072:MT-90
108	A-8271-813-A	0	MOUNTED CIRCUIT BOARD, LE-118 (FOR DVS-6000)
	A-8271-891-A	0	MOUNTED CIRCUIT BOARD, LE-118(A) (FOR DVS-6000C)
			OPTION BOARD BKDS-6060:SD-30 BKDS-6061:DA-71 BKDS-6062:DA-72
109	A-8271-815-A	0	MOUNTED CIRCUIT BOARD, SG-210 (FOR DVS-6000)
	A-8271-892-A	0	MOUNTED CIRCUIT BOARD, SG-211 (FOR DVS-6000C)
110	X-3165-222-2	0	RETAINER ASSY, PC BOARD
111 112 113 114 115	X-3166-935-1 2-249-250-00 3-166-132-02	0 S	PLATE ASSY, SHIELD RETAINER ASSY, PC BOARD CLIP (SMALL), CANOE SPACER (G) LEVER, PC BOARD
117	3-166-185-01 3-166-195-01 3-166-196-02	0	RETAINER, RAIL TABLE
119 120	3-166-200-01 3-166-213-02	0	RETAINER, EJECTOR BRACKET, FCC REINFORCEMENT
121 122	3-166-214-01 3-166-230-02	0	SHEET, INDICATION
123 124 125	3-166-230-12 3-166-231-02	0	TABLE, RAIL PLATE, BOTTOM PLATE (R), SIDE
126	3-166-233-02	0	PLATE (L), SIDE TABLE, SLIDE, POWER
127 128 129	3-179-135-02 3-179-136-02	0	BRACKET (R), MB BRACKET (L), MB
130			HOLDER, PC BOARD
131 132 133 134 135	3-179-166-01 3-179-230-01 3-654-139-21	0	JOINT
136 137	3-724-333-11	0	GUIDE (S), CASSETTE PIN, SPRING 3X8



POWER UNIT

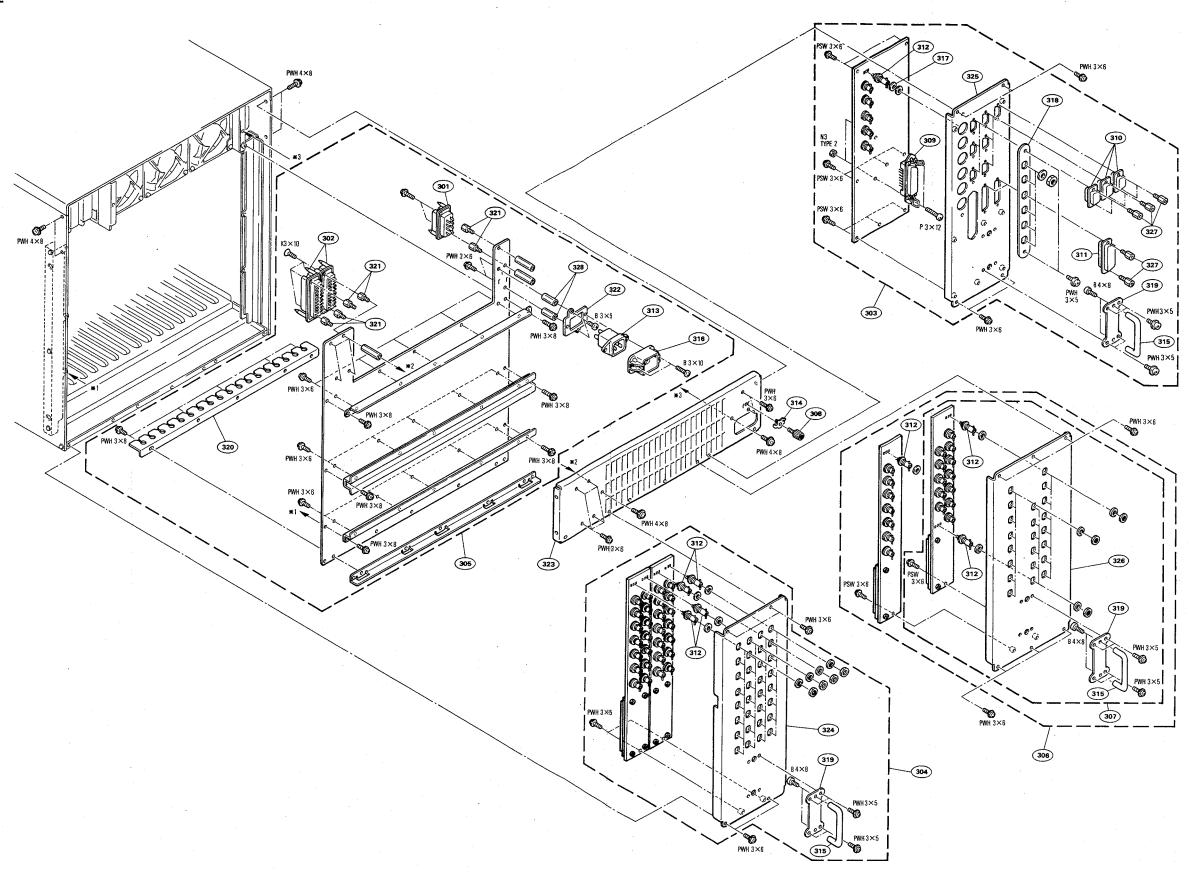
No.	Part No. SP Description
201 202 203 204 205	A-8271-814-A O MOUNTED CIRCUIT BOARD, RE-96 A1-572-345-11 S SWITCH, ROCKER (AC POWER) A1-573-785-11 O HOUSING 8P A1-576-036-11 S BREAKER, CIRCUIT A1-580-349-11 O HOUSING 20P
206 207 208 209 210	1-631-489-11 O PRINTED CIRCUIT BOARD, LE-76 1-698-080-11 S MOTOR, DC FAN (ASF9038001) 2-249-250-00 S CLIP (SMALL), CANOE 2-280-622-21 O SUPPORT (M3X10), HEXAGON 3-166-190-12 S NUT, PLATE
	3-166-190-22 s NUT, PLATE 3-172-089-01 o HANDLE 3-179-122-02 o PLATE, FIXED, PS 3-179-123-01 o PAD, THERMAL 3-179-124-02 o PLATE, INDICATION
216 217 218 219 220	3-179-162-02 o PANEL, PS FRONT 3-179-163-01 o HEAT SINK 3-179-172-02 o CHASSIS, PS 3-669-602-00 s SPRING, COMPRESSION 3-674-390-00 o HOLDER (B), LED
221	3-723-892-01 o COVER, CIRCUIT BREAKER



REAR PANEL

No.	Part No. SP Descr	ription
301	A—PENDING—— S CONNI	CTOR 8P, MALE
302	A—PENDING—— S CONEI	CTOR 20P, MALE
303	A-8267-100-A 0 CN-84	13 ASSY
304	A-8267-101-A 0 CN-31	12 (C) ASSY
305	A-8267-102-A 0 MB-46	12 ASSY
306	A-8267-179-A o CN-31	11 ASSY (FOR DVS-6000)
307	A-8267-212-A o CN-31	11(B) ASSY (FOR DVS-60000
308	X-2068-004-O s TERM1	INAL ASSY
309	1-563-384-11 s CONNI	ECTOR, AMPHE 50P, FEMALE
310	1-563-890-21 s CONNI	ECTOR, D-SUB 9P, FEMALE
311 312 313 314 315	1-563-891-21 s CONNI 1-580-356-11 s CONNI 1-580-375-21 s INLET 2-068-008-00 s WASHI 2-270-616-00 o HANDI	ECTOR, D-SUB 25P, FEMALE CTOR, BNC, FEMALE F, AC 3P, MALE CR CR CR
316	2-990-242-01 o HOLDI	ER (B) PLUG
317	3-166-187-01 o SPACI	ER
318	3-166-201-11 o PANEI	BNC
319	3-167-576-01 o BRACI	ET, HANDLE
320	3-168-628-01 o GUIDI	E, PCB
321	3-179-120-01 o SUPPO	ORT
322	3-179-121-01 o BRACI	GET, AC INLET
323	3-179-161-01 o PANEI	L, REAR
324	3-179-164-02 o PANEI	L (A), CN
325	3-179-165-02 o PANEI	L (B), CN
326 327 328	3-179-579-01 o PANEI 3-179-811-01 o PANEI 3-673-910-21 o SCREV 3-711-649-01 o STUD	

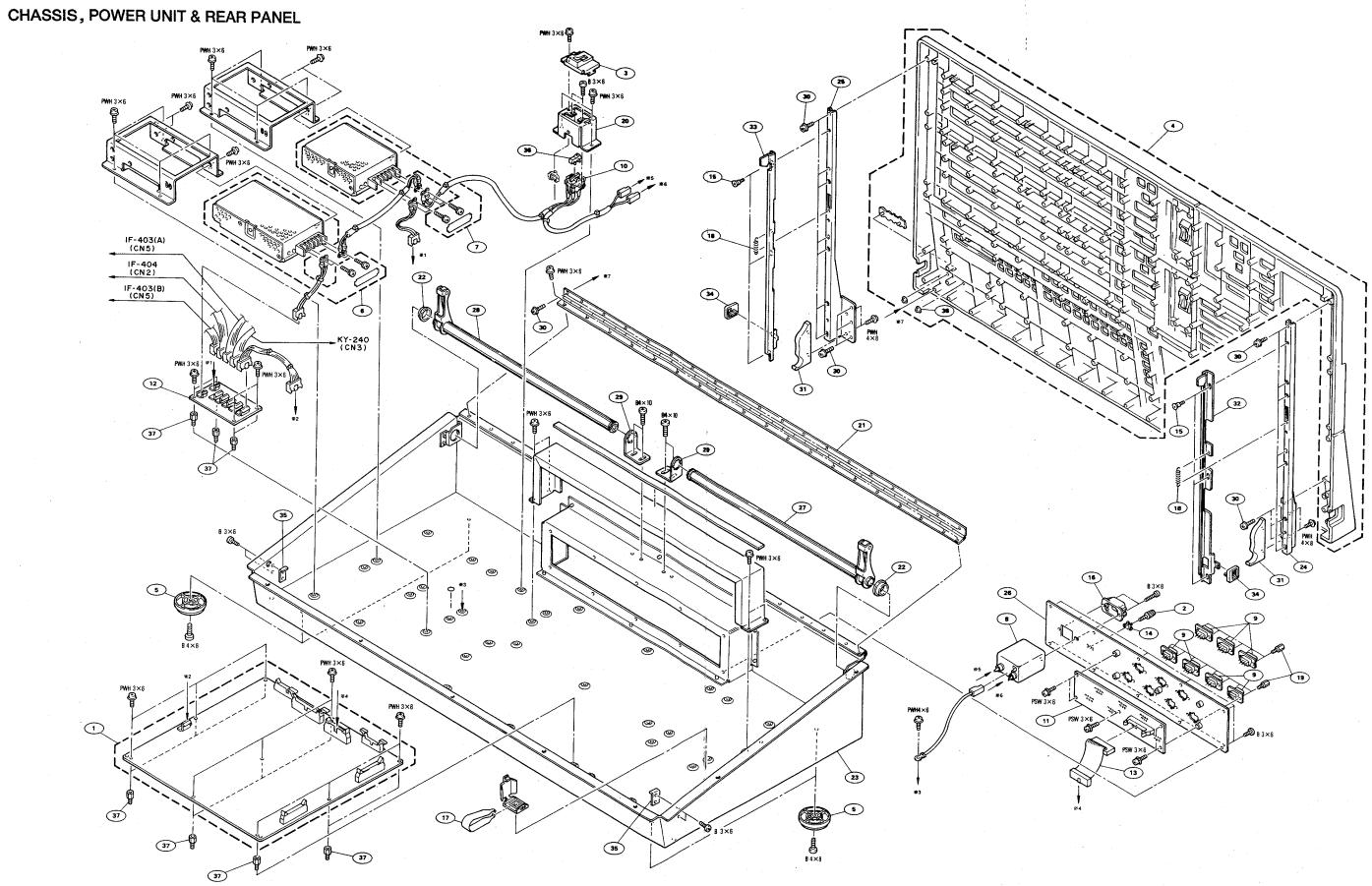
REAR PANEL



9-3. BKDS-6010
EXPLODED VIEWS AND PARTS

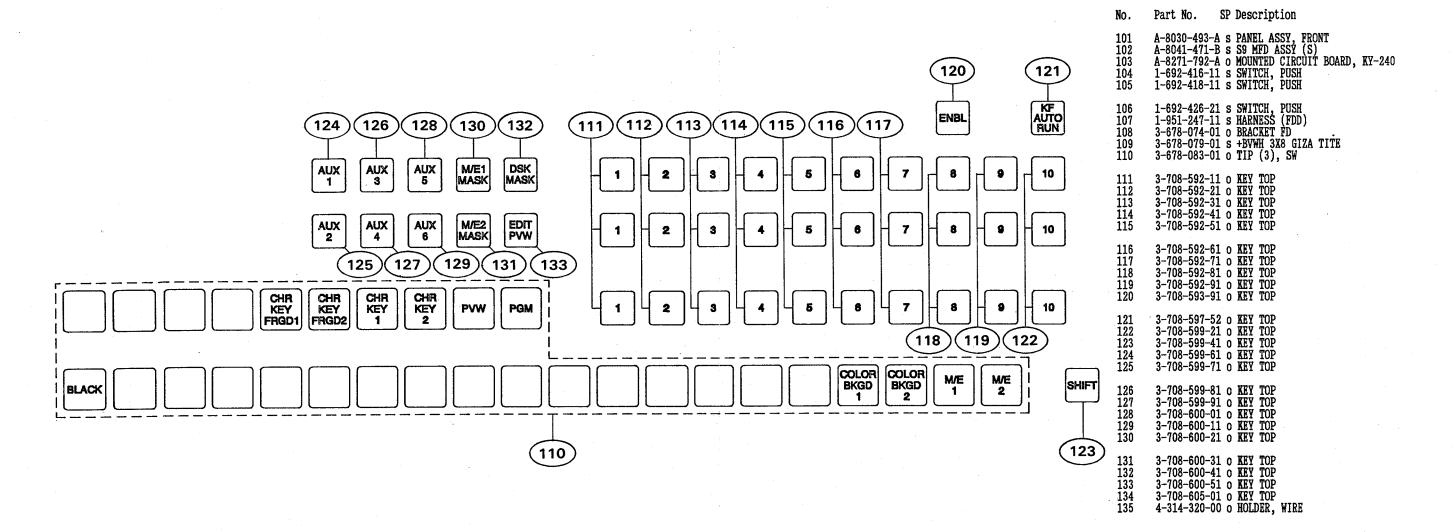
CHASSIS, POWER UNIT & REAR PANEL

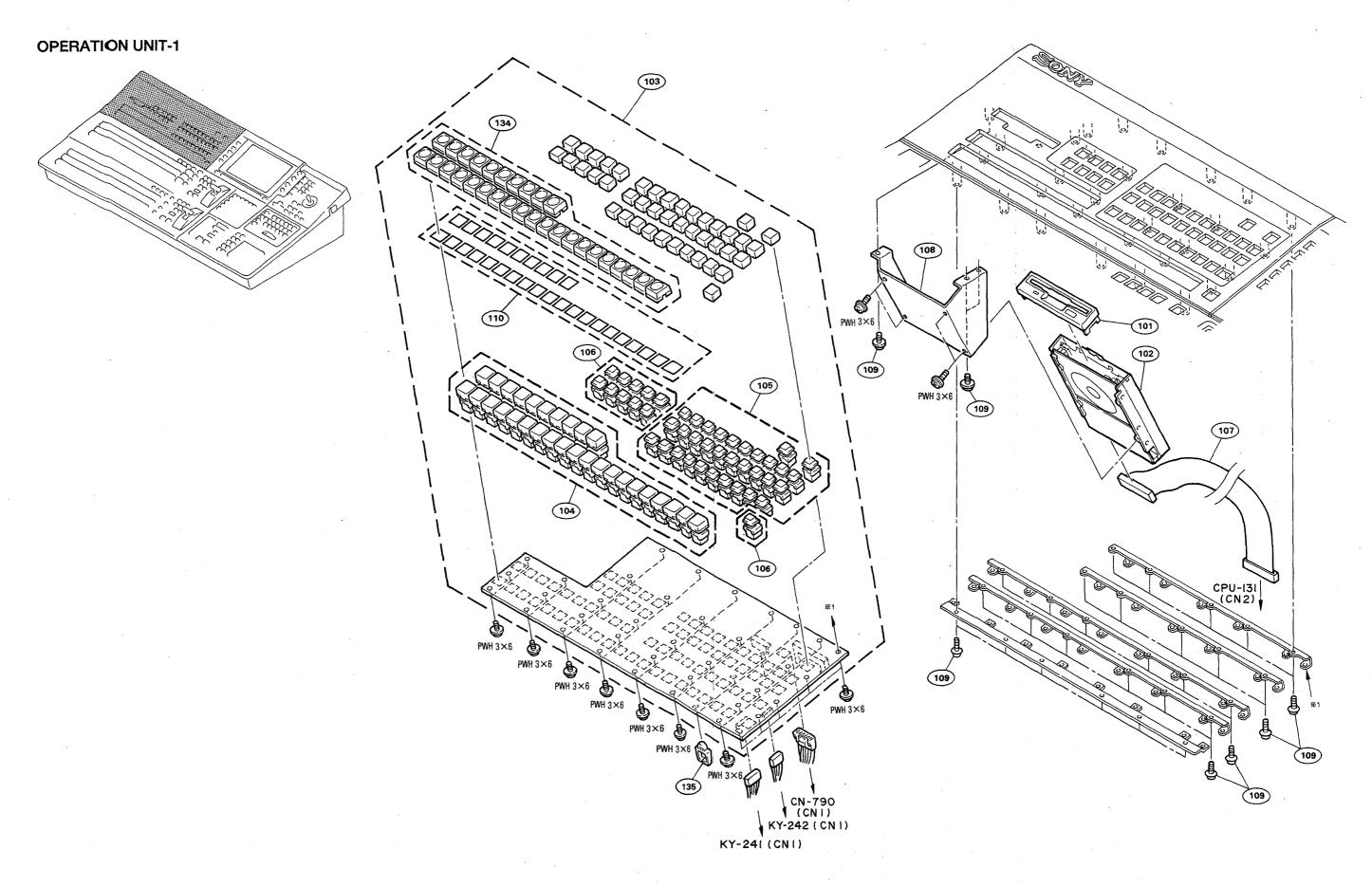
No.	Part No.	SP	Description
1 2 3 4 5	X-3166-507	-1 0 -1 0	MOUNTED CIRCUIT BOARD, CPU-131 TERMINAL ASSY ESCUTCHEON ASSY, POWER PANEL SUB ASSY LEG ASSY
6 7 8 9 10	▲1-413-803- ▲1-424-451- 1-563-890-	11 s 11 s 21 s	REGULATOR, SWITCHING (EWS50-12 REGURATOR, SWITCHING (EWS25-5) FILTER, NOISE CONNECTOR, D-SUB 9P, FEMALE SWITCH, ROCKER (AC POWER)
11 12 13 14 15	1-646-598-	11 o 11 s 00 s	PRINTED CIRCUIT BOARD, CN-789 PRINTED CIRCUIT BOARD, CN-790 HARNESS (CN789) WASHER SCREW, STEP
16 17 18 19 20	2-990-241- 3-179-054- 3-542-914- 3-673-910- 3-678-055-	02 s 01 o 01 o 21 s 01 o	HOLDER (A), PLUG TOOL, CAP PULL SPRING TENSION SCREW CONNECTOR BRACKET, POWER SW
21 22 23 24 25	3-678-056- 3-678-063- 3-678-064- 3-678-065- 3-678-066-	01 0 01 0 01 0 01 0 01 0	HING COLLAR CASE REINFORCEMENT(R) REINFORCEMENT(L)
26 27 28 29 30	3-678-069- 3-678-075- 3-678-076- 3-678-077- 3-678-079-	01 o 01 o	PANEL, CN COUNTER BALANCE(R) COUNTER BALANCE(L) BRACKET, COUNTER +BVWH 3X8 GIZA TITE
31 32 33 34 35	3-678-095- 3-678-272- 3-678-273- 3-678-274- 3-678-275-	01 S	PLATE, SLIDE(R)
36 37 38	3-688-814- 3-711-018- 7-624-200-	01 s 01 o 11 s	CAP, SWITCH STAND OFF-BRAKE BAND GUIDE NUT, PUSH 2

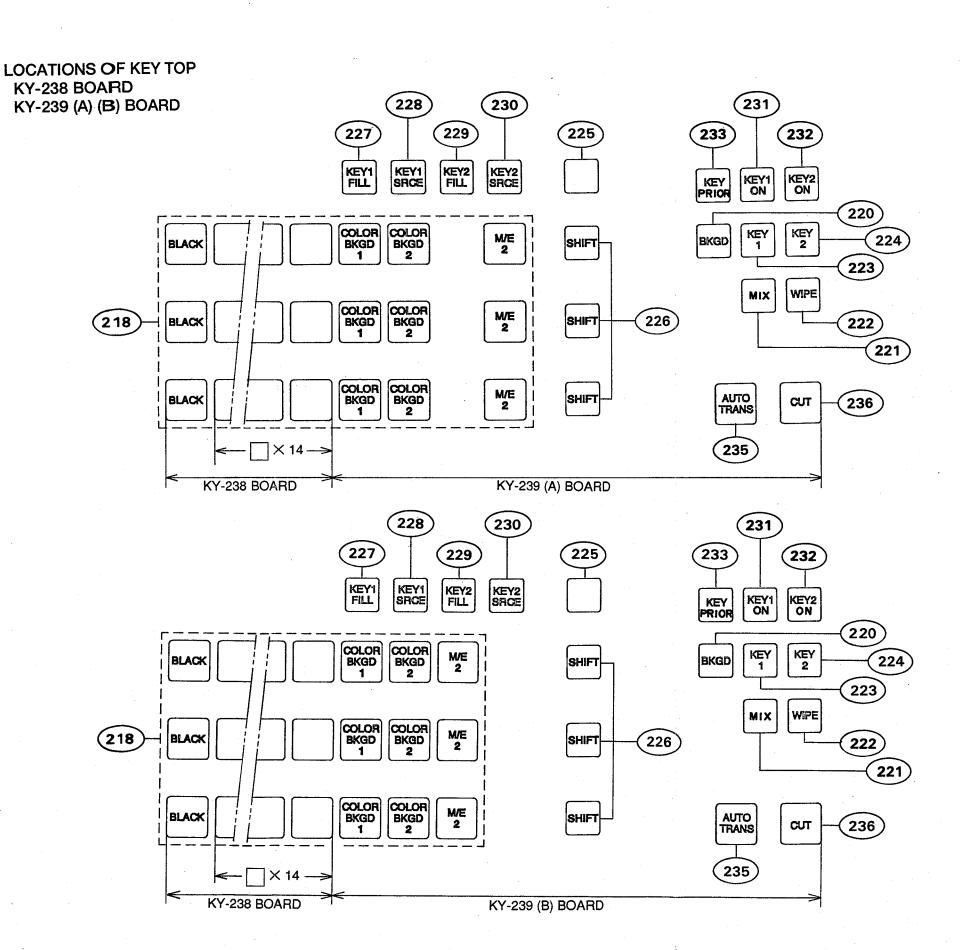


OPERATION UNIT 1

LOCATIONS OF KEY TOP KY-240 BOARD

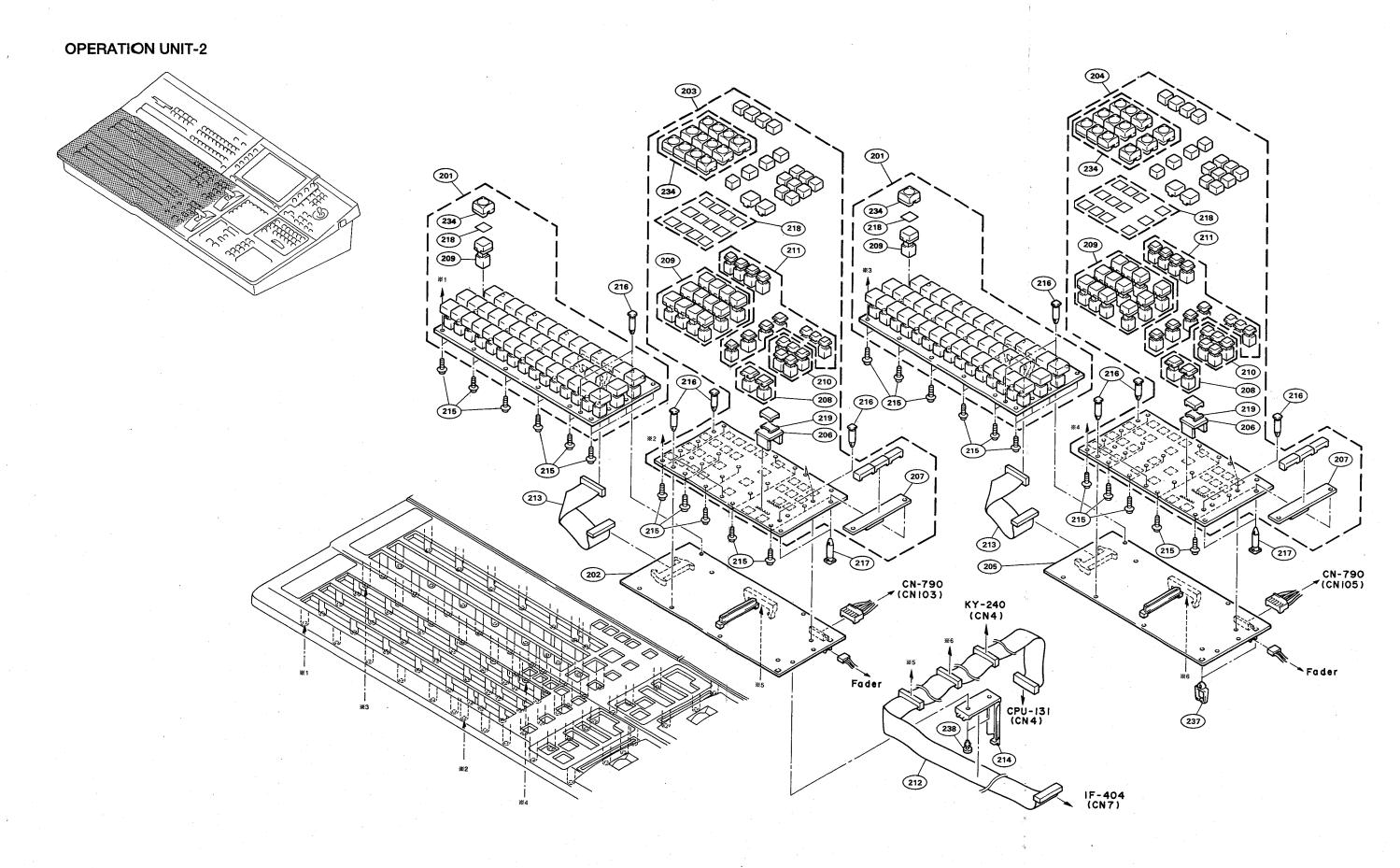






OPERATION UNIT 2

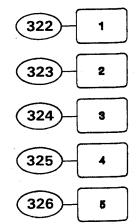
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Part No. SP Description
              A-8271-714-A O MOUNTED CIRCUIT BOARD, KY-238
A-8271-715-A O MOUNTED CIRCUIT BOARD, IF-403 (B)
A-8271-716-A O MOUNTED CIRCUIT BOARD, KY-239 (B)
A-8271-791-A O MOUNTED CIRCUIT BOARD, KY-239 (A)
203
               A-8271-796-A O MOUNTED CIRCUIT BOARD, IF-403 (A)
              1-646-592-11 o PRINTED CIRCUIT BOARD, LE-111
1-646-593-11 o PRINTED CIRCUIT BOARD, LE-112
1-692-414-21 s SWITCH, PUSH
1-692-416-11 s SWITCH, PUSH
1-692-418-11 s SWITCH, PUSH
207
208
209
              1-692-426-21 s SWITCH, PUSH
1-951-249-11 s HARNESS (BUS)
1-951-250-12 s HARNESS (KY238)
3-673-796-02 o CLAMP, FLAT CABLE
3-678-079-01 s +BVWH 3X8 GIZA TITE
211
212
213
214
215
              3-678-084-01 o SPACER(1),PCB
3-678-085-01 o SPACER(2),PCB
3-678-086-01 o TIP(4), SW
3-678-289-01 o SPACER(3)
3-708-593-11 o KEY TOP
216
217
 218
219
 220
              3-708-593-21 0 KEY TOP
3-708-593-31 0 KEY TOP
3-708-595-51 0 KEY TOP
3-708-595-61 0 KEY TOP
 222
 223
 225
                3-708-599-31 o KEY TOP
  226
227
228
               3-708-599-41 o KEY TOP
3-708-600-61 o KEY TOP
3-708-600-71 o KEY TOP
  229
                3-708-600-81 o KEY TOP
  230
                3-708-600-91 o KEY TOP
               3-708-601-01 o KEY TOP
3-708-601-11 o KEY TOP
3-708-601-51 o KEY TOP
 231
  232
233
  234
235
                3-708-605-01 o KEY TOP
                3-708-608-11 o KEY TOP
                3-708-608-21 o KEY TOP
4-314-320-00 o HOLDER, WIRE
  237
  238
                4-812-134-11 s RIVET NYLON, 3.5
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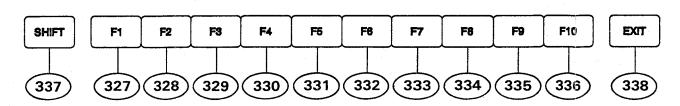
OPERATION UNIT 3

No.	Part No. SP Description				
301 302 303 304 305	A-8271-794-A O MOUNTED CIRCUIT BOARD, KY-245 A-8271-795-A O MOUNTED CIRCUIT BOARD, KY-246 A-8271-799-A O MOUNTED CIRCUIT BOARD, KY-241 A-8271-800-A O MOUNTED CIRCUIT BOARD, KY-242 1-238-724-11 S RES, VAR(STICK) CARBON 10Kx2	321 3-678-078-01 0 BRACKET, PC BOARD 322 3-708-590-11 0 KEY TOP 323 3-708-590-21 0 KEY TOP 324 3-708-590-31 0 KEY TOP 325 3-708-590-41 0 KEY TOP	341 3-708-594-51 0 KEY TOP 342 3-708-596-11 0 KEY TOP 343 3-708-596-21 0 KEY TOP 344 3-708-597-61 0 KEY TOP 345 3-708-597-71 0 KEY TOP	356 357 358 359 360	3-708-601-31 O KEY TOP 3-708-604-21 O KEY TOP 3-708-604-31 O KEY TOP 3-708-604-41 O KEY TOP 3-708-604-51 O KEY TOP
306 307 308 309 310	1-466-954-11 s DISPLAY UNIT, EL 1-466-955-11 s ENCODER, ROTARY 1-692-412-21 s SWITCH, PUSH 1-692-418-11 s SWITCH, PUSH 1-951-246-11 s HARNESS (EL)	326 3-708-590-51 0 KEY TOP 327 3-708-590-61 0 KEY TOP 328 3-708-590-71 0 KEY TOP 329 3-708-590-81 0 KEY TOP 330 3-708-590-91 0 KEY TOP	346 3-708-598-01 0 KEY TOP 347 3-708-598-11 0 KEY TOP 348 3-708-598-21 0 KEY TOP 349 3-708-598-31 0 KEY TOP 350 3-708-598-41 0 KEY TOP	361 362 363 364	3-897-313-01 s BOSS (17.2), RELAY 4-360-293-00 o SPACER, BOSS 4-812-134-11 s RIVET NYLON, 3.5 4-853-743-00 o BOSS
311 312 313 314 315	2-280-622-21 o SUPPORT (M3X10), HEXAGON 3-166-428-01 s COVER, JOG 3-178-147-02 s KNOB, VOLUME 3-178-151-01 s LEVER, JOG 3-673-796-02 o CLAMP, FLAT CABLE	331 3-708-591-01 0 KEY TOP 332 3-708-591-11 0 KEY TOP 333 3-708-591-21 0 KEY TOP 334 3-708-591-31 0 KEY TOP 335 3-708-591-41 0 KEY TOP	351 3-708-598-51 0 KEY TOP 352 3-708-598-61 0 KEY TOP 353 3-708-598-71 0 KEY TOP 354 3-708-599-11 0 KEY TOP 355 3-708-601-21 0 KEY TOP		
316 317 318 319 320	3-678-048-01 o CUSHION(2) 3-678-053-01 o CUSHION(1) 3-678-057-01 o BRACKET, INDICATION PANEL 3-678-058-01 o PANEL, INDICATION 3-678-062-01 o BRACKET, EL	336 3-708-591-51 0 KEY TOP 337 3-708-591-61 0 KEY TOP 338 3-708-591-71 0 KEY TOP 339 3-708-594-31 0 KEY TOP 340 3-708-594-41 0 KEY TOP	LOCATIONS OF KEY TOP		

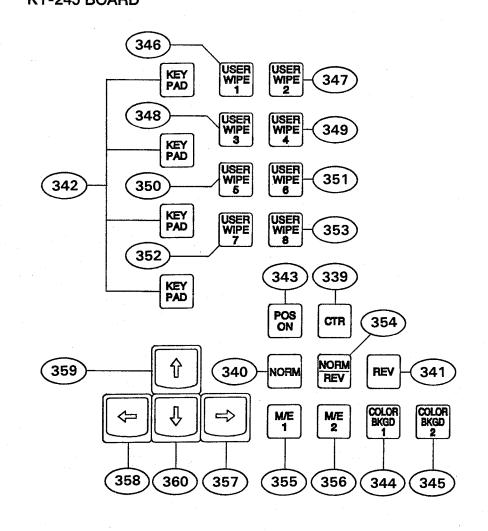
LOCATIONS OF KEY TOP KY-241 BOARD

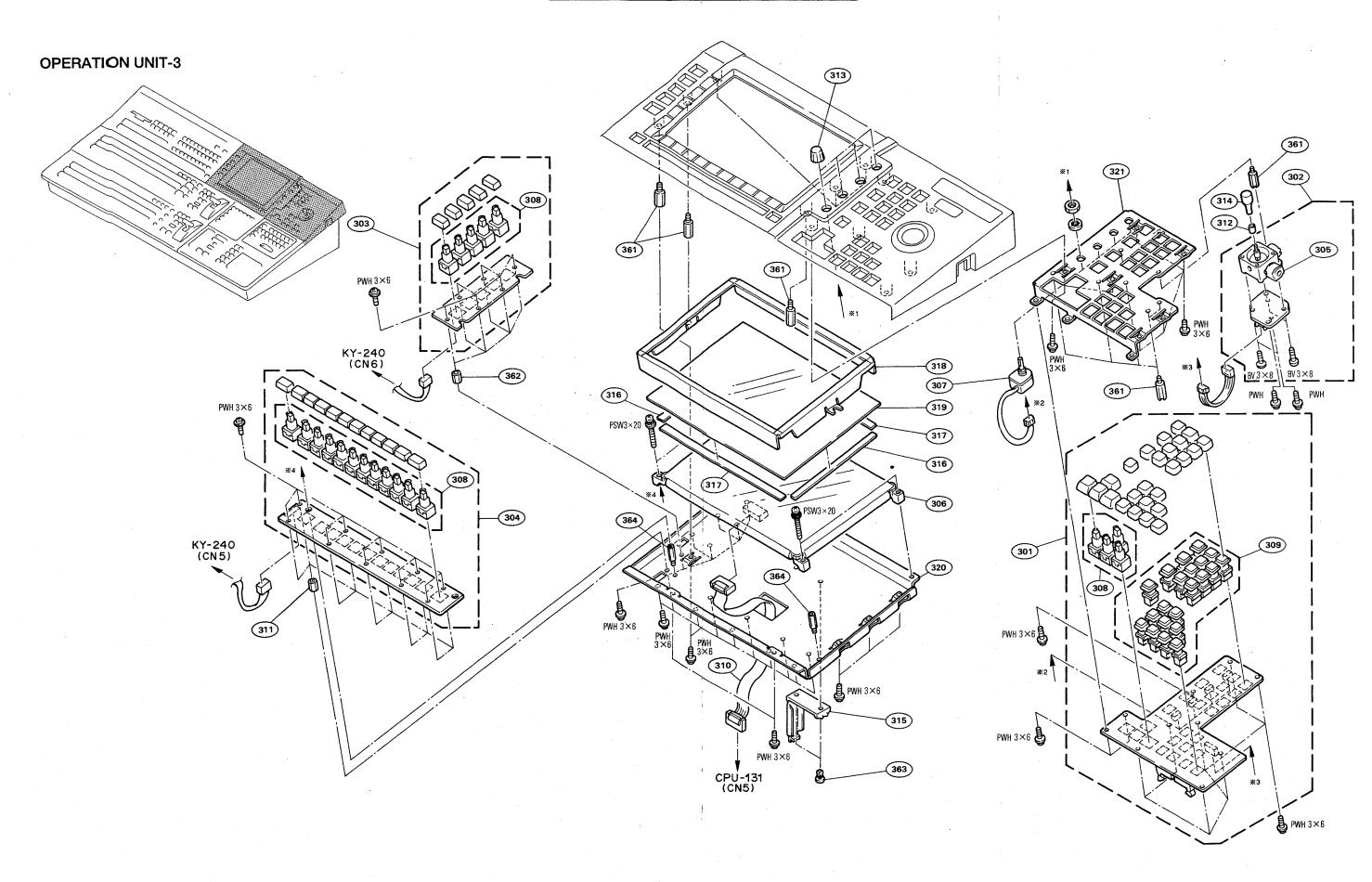


LOCATIONS OF KEY TOP KY-242 BOARD

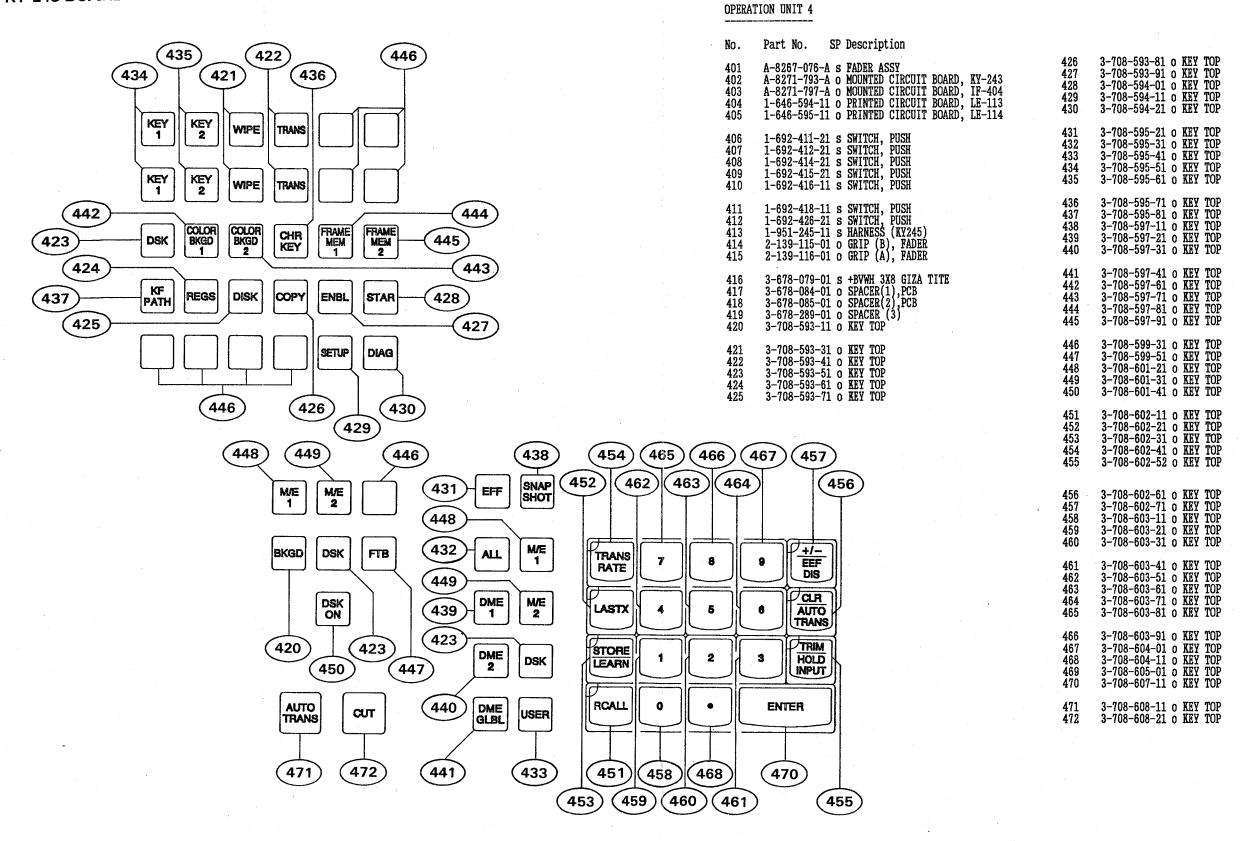


LOCATIONS OF KEY TOP **KY-245 BOARD**

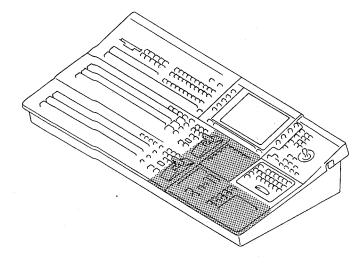


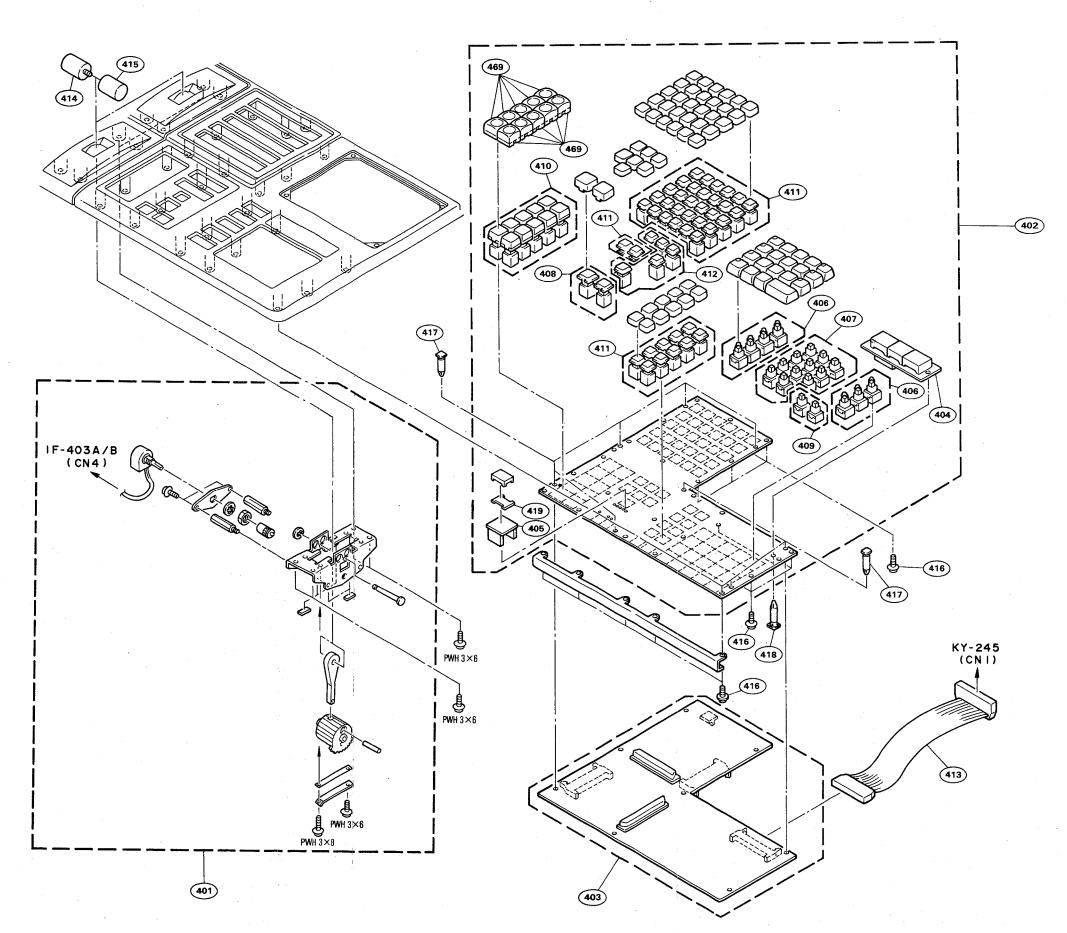


LOCATIONS OF KEY TOP KY-243 BOARD





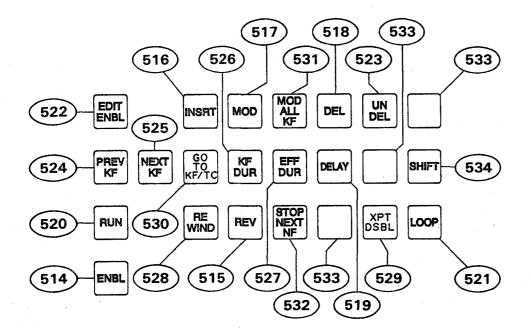




OPERATION UNIT-5 (BKDS-6050)

OPERATION UNIT-5 (BKDS-6050)

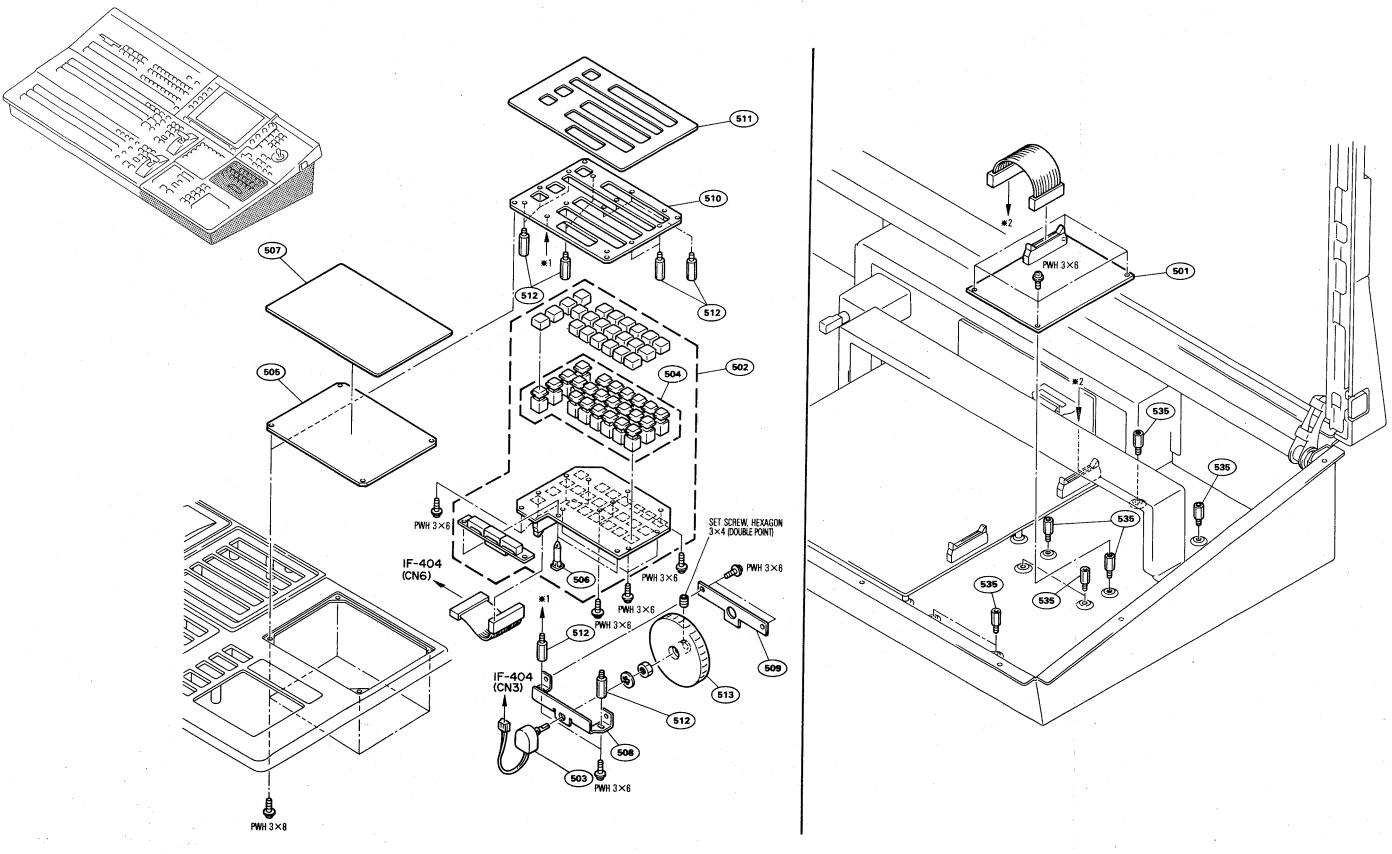
LOCATIONS OF KEY TOP KY-244 BOARD



OPERATION UNIT 5 (BKDS-6050)

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Part No. SP Description
                     A-8271-899-A O MOUNTED CIRCUIT BOARD, IF-418
A-8271-900-A O MOUNTED CIRCUIT BOARD, KY-244
1-466-955-11 s ENCODER, ROTARY
1-692-418-11 s SWITCH, PUSH
3-678-071-02 O PANEL, BLANK (FOR BKDS-6010)
506
507
508
509
510
                      3-678-085-01 o SPACER (2), PCB
3-678-096-02 o SHEET, BLANK (FOR BKDS-6010)
3-678-294-01 o BRACKET(1), DIAL
3-678-295-01 o BRACKET(2), DIAL
3-678-296-01 o PANEL, KEY FRAME
                      3-678-297-01 c SHEET, KF
3-678-298-01 c SUPPORT
3-678-299-01 c DIAL
3-708-593-91 c KEY TOP
3-708-594-51 c KEY TOP
511
512
513
514
515
                      3-708-594-61 O KEY TOP
3-708-594-71 O KEY TOP
3-708-594-81 O KEY TOP
3-708-594-91 O KEY TOP
3-708-595-01 O KEY TOP
516
517
518
519
520
                      3-708-595-11 0 KEY TOP
3-708-596-31 0 KEY TOP
3-708-596-41 0 KEY TOP
3-708-596-51 0 KEY TOP
3-708-596-61 0 KEY TOP
521
522
523
524
525
                      3-708-596-71 O KEY TOP
3-708-596-81 O KEY TOP
3-708-596-91 O KEY TOP
3-708-597-02 O KEY TOP
3-708-598-51 O KEY TOP
526
527
528
529
530
                      3-708-598-81 O KEY TOP
3-708-599-01 O KEY TOP
3-708-599-31 O KEY TOP
3-708-599-41 O KEY TOP
3-711-018-11 O STAND OFF-BRAKE BAND GUIDE
532
                                                                                                                   (FOR BKDS-6010)
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9-4. ELECTRICAL PARTS LIST

CAPACITOR, ELECT

Part No. SP Description

1-126-392-11 s ELECT, CHIP 100uF 20% 6.3V 1-126-394-11 s ELECT, CHIP 10uF 20% 16V

CAPACITOR, CHIP CERAMIC

Part No. SP Description

1-163-038-00 s CERAMIC, CHIP 0.1uF 25V 1-164-004-11 s CERAMIC, CHIP 0.1uF 10% 25V

RESISTOR, CHIP METAL

Part No. SP Description

1-216-309-00 s METAL, CHIP 5.6 5% 1/10W 1-216-603-11 s METAL, CHIP 10 0.5% 1/10W 1-216-611-11 s METAL, CHIP 22 0.5% 1/10W 1-216-624-11 s METAL, CHIP 75 0.5% 1/10W 1-216-627-11 s METAL, CHIP 100 0.5% 1/10W 1-216-635-11 s METAL, CHIP 220 0.5% 1/10W 1-216-639-11 s METAL, CHIP 330 0.5% 1/10W 1-216-645-11 s METAL, CHIP 330 0.5% 1/10W 1-216-651-11 s METAL, CHIP 620 0.5% 1/10W 1-216-651-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-658-11 s METAL, CHIP 1K 0.5% 1/10W 1-216-675-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 10K 0.5% 1/10W 1-216-699-11 s METAL, CHIP 10K 0.5% 1/10W

			
BD-22 BO	ARD	CN-311 B	OARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
2pcs 1pc 2pcs 3pcs	3-166-184-01 o LEVER, PC BOARD 3-179-230-01 o JOINT 7-626-320-11 s PIN, SPRING 3X8 7-682-903-01 s SCREW +PWH 3X5	CN1	1-580-356-11 s CONNECTOR, BNC, FEMALE "ME1 OUTPUTS PGM"
8pcs	7-685-104-19 s SCREW +P 2X6 TYPE2 SLIT	CN2	1-580-356-11 s CONNECTOR, BNC, FEMALE "ME2 OUTPUTS PGM"
CN112 CN212	1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P	CN3	1-580-356-11 s CONNECTOR, BNC, FEMALE "PGM OUTPUTS 1"
CNA1	1-750-250-11 o CONNECTOR, BB 50P, MALE 1-750-250-11 o CONNECTOR, BB 50P, MALE	CN4	1-580-356-11 s CONNECTOR, BNC, FEMALE "PGM OUTPUTS 2"
CND1	1-750-250-11 o CONNECTOR, BB 50P, MALE	CN5	1-580-356-11 s CONNECTOR, BNC, FEMALE "ASSIGN OUTPUTS 1"
IC11 IC119 IC120	8-759-057-32 s IC CAT35C104K 8-759-504-98 s IC CXD8056Q 8-759-504-98 s IC CXD8056Q	CN6	1-580-356-11 s CONNECTOR, BNC, FEMALE "AUX BUS OUTPUTS 1"
IC121 IC122	8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28	CN7	1-580-356-11 s CONNECTOR, BNC, FEMALE "AUX BUS OUTPUTS 3"
IC123 IC124 IC125 IC126	8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28 8-759-504-98 s IC CXD8056Q 8-759-323-08 s IC HM63021FP-28	CN8	1-580-356-11 s CONNECTOR, BNC, FEMALE "AUX BUS OUTPUTS 5"
IC127	8-759-323-08 s IC HM63021FP-28	CN11	1-580-356-11 s CONNECTOR, BNC, FEMALE "PGM OUTPUTS 3"
IC128 IC129 IC130 IC144	8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28 8-759-504-98 s IC CXD8056Q 8-759-244-75 s IC TC74AC541F	CN12	1-580-356-11 s CONNECTOR, BNC, FEMALE "PGM OUTPUTS 4"
IC219	8-759-504-98 s IC CXD8056Q	CN13	1-580-356-11 s CONNECTOR, BNC, FEMALE "ASSIGN OUTPUTS 2"
IC220 IC221 IC222 IC223	8-759-504-98 s IC CXD8056Q 8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28	CN14	1-580-356-11 s CONNECTOR, BNC, FEMALE "AUX BUS OUTPUTS 2"
IC224	8-759-323-08 s IC HM63021FP-28	CN15	1-580-356-11 s CONNECTOR, BNC, FEMALE "AUX BUS OUTPUTS 4"
IC225 IC226 IC227 IC228	8-759-504-98 s IC CXD8056Q 8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28 8-759-323-08 s IC HM63021FP-28	CN16	1-580-356-11 s CONNECTOR, BNC, FEMALE "AUX BUS OUTPUTS 6"
IC229	8-759-323-08 s IC HM63021FP-28	CNZ1	1-563-337-11 s CONNECTOR, DIN 96P, FEMALE
IC230 IC244	8-759-504-98 s IC CXD8056Q 8-759-244-75 s IC TC74AC541F		

CN-312(A	A) BOARD	CN-312(B	B) BOARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
CN1	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 1"	CN1	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 17"
CN2	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 2"	CN2	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 18"
CN3	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 3"	CN3	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 19"
CN4	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 4"	CN4	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 20"
CN5	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 5"	CN5	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 21"
CN6	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 6"	CN6	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 22"
CN7	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 7"	CN7	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 23"
CN8	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 8"	CN8	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 24"
CN3	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 9"	CN9	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 25"
CN10	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 10"	CN10	1-580-356-11 s CONNECTOR, BNC, FEMALE
CN11	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 11"	CN11	"PRIMARY INPUTS 26" 1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 27"
CN12	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 12"	CN12	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 28"
CN13	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 13"	CN13	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 29"
CN14	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 14"	CN14	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 30"
CN15	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 15"	CN15	1-580-356-11 s CONNECTOR, BNC, FEMALE
CN16	1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY INPUTS 16"	CN16	"PRIMARY ÎNPUTS 31" 1-580-356-11 s CONNECTOR, BNC, FEMALE "PRIMARY ÎNPUTS 32"
CNZ1	1-563-337-11 s CONNECTOR, DIN 96P, FEMALE	A1104	
CNZ2	1-563-337-11 s CONNECTOR, DIN 96P, FEMALE	CNZ1	1-563-337-11 s CONNECTOR, DIN 96P, FEMALE
	•	CNZ2	1-563-337-11 s CONNECTOR, DIN 96P, FEMALE

CN-503 BOARD						
Ref. No. or Q'ty	Part	No.	SP	Description	n	
CN1	1-580)-356-11	S	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-1	Y/G"
CN2	1-580	-356-11	S	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-1	В-Ч/В"
CN3	1-580	-356-11	s	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-1	R-Y/R"
CN4	1-580	-356-11	S	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-1	SYNC"
CN5	1-580	-356-11	s	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-2	Y/G"
CN6	1-580	-356-11	S	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-2	B-Y/B"
CN7	1-580	-356-11	s	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-2	R-Y/R"
CN8	1-580	-356-11	S	CONNECTOR, "CHROMAKEY	BNC, FEMALE INPUTS CH-2	SYNC"

1-563-337-11 s CONNECTOR, DIN 96P, FEMALE

CNZ1

CN-789 BOARD

	
Ref. No. or Q'ty	Part No. SP Description
1pc 1pc 14pcs 5pcs	1-646-597-11 o PRINTED CIRCUIT BOARD, CN-789 3-678-069-01 o PANEL, CN 3-673-910-21 o SCREW, CONNECTOR 7-682-947-01 s SCREW +PSW 3X6
CN1 CN2	1-568-064-11 o CONNECTOR, TX 50P, MALE 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "SWITCHER"
CN3	1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "TEST"
CN4	1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "DME"
CN5	1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "REMOTE"
CN6	1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "TERMINAL 1"
CN7	1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "TERMINAL 2"
CN8	1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "TERMINAL 3"

CN-790 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc	1-646-598-11 o PRINTED CIRCUIT BOARD, CN-790 $$
CN101 CN102 CN103 CN104 CN105	1-564-243-00 o CONNECTOR, VH 6P, MALE
CN106 CN107	1-564-243-00 o CONNECTOR, VH 6P, MALE 1-564-243-00 o CONNECTOR, VH 6P, MALE
D1 D2	8-719-940-99 s LED SLR-34VC3, RED 8-719-940-99 s LED SLR-34VC3, RED
R1 R2	1-249-411-11 s CARBON 330 5% 1/4W

CN-843 BOARD	CPU-131 BOARD
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
CN1 1-580-356-11 s CONNECTOR, BNC, FEMALE "REF INPUT"	1pc A-8271-798-A o MOUNTED CIRCUIT BOARD, CPU-131 BZ1 1-529-025-00 s BUZZER
CN2 1-580-356-11 s CONNECTOR, BNC, FEMALE "REF INPUT"	C202 1-126-396-11 s ELECT, CHIP 47uF 20% 16V C204 1-126-396-11 s ELECT, CHIP 47uF 20% 16V C211 1-107-210-00 s MICA 22PF 5% 500V
CN2 1-580-356-11 s CONNECTOR, BNC, FEMALE "REF INPUT" CN3 1-580-356-11 s CONNECTOR, BNC, FEMALE "MONITOR OUTPUT 1/Y"	C211 1-107-210-00 S MICA 22PF 5% 500V C212 1-107-210-00 S MICA 22PF 5% 500V C220 1-126-396-11 S ELECT, CHIP 47uF 20% 16V
CN4 1-580-356-11 s CONNECTOR, BNC, FEMALE "MONITOR OUTPUT 2/B-Y"	C222 1-126-396-11 s ELECT, CHIP 47uF 20% 16V C223 1-164-232-11 s CERAMIC 0.01uF 10% 100V
CN5 1-580-356-11 s CONNECTOR, BNC, FEMALE "MONITOR OUTPUT 3/R-Y"	C235 1-107-202-00 s MICA 10PF 5% 500V C236 1-107-046-00 s MICA 4.7PF 500V C237 1-163-011-11 s CERAMIC 0.0015uF 10% 50V
CN6 1-580-356-11 s CONNECTOR, BNC, FEMALE "REF OUTPUT" CNA1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "DME1 (AUX BUS)"	CN1 1-564-243-00 O CONNECTOR, VH 6P, MALE CN2 1-506-700-11 O HEADDER 34P, MALE CN3 1-568-064-11 O CONNECTOR, TX 50P, MALE CN4 1-568-664-11 O CONNECTOR, TX 50P, MALE
CNA1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "DME1 (AUX BUS)"	CN4 1-568-064-11 0 CONNECTOR, TX 50P, MALE CN5 1-506-697-11 0 HEADDER 16P, MALE
CNC1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "CONTROL"	CN6 1-565-689-11 O CONNECTOR, TX 60P, MALE CN7 1-565-689-11 O CONNECTOR, TX 60P, MALE CN8 1-506-470-21 O CONNECTOR 5P, MALE
CND1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "DME1 (AUX BUS)"	CNI12 1-251-071-11 s SOCKET, IC (PGA) 100P CNI13 1-526-656-00 o SOCKET, IC (DP) 20P
CNE1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "EDITOR A"	CNI14 1-526-816-21 o SOCKET, IC (DP) 24P CNI15 1-526-656-00 o SOCKET, IC (DP) 20P CNI16 1-526-656-00 o SOCKET, IC (DP) 20P
CNE2 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "EDITOR B"	CNI17 1-526-816-21 o SOCKET, IC (DP) 24P CNI18 1-526-656-00 o SOCKET, IC (DP) 20P CNI34 1-526-656-00 o SOCKET, IC (DP) 20P
CNG1 1-563-891-21 s CONNECTOR, D-SUB 25P, FEMALE "GP1"	CNI34 1-526-656-00 0 SOCKET, IC (DP) 20P CNI37 1-526-660-21 0 SOCKET, IC 32P CNI38 1-526-659-00 0 SOCKET, IC 28P
CNM1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "SERIAL TALLY"	CNT47 1-526-660-21 o SOCKET, TC 32P
CNT1 1-563-891-21 s CONNECTOR, D-SUB 25P, FEMALE "TERMINAL"	CNI48 1-526-660-21 0 SOCKET, IC 32P CNI49 1-526-660-21 0 SOCKET, IC 32P CNI50 1-526-660-21 0 SOCKET, IC 32P CNI51 1-526-660-21 0 SOCKET, IC 32P CNI51 1-526-660-21 0 SOCKET, IC 32P
CNT2 1-563-384-11 s CONNECTOR, AMPHE 50P, FEMALE "EXT"	CNI52 1-526-660-21 o SOCKET, IC 32P CNI53 1-526-660-21 o SOCKET, IC 32P
CNU1 1-563-890-21 s CONNECTOR, D-SUB 9P, FEMALE "USR"	CN154 1-526-660-21 o SOCKET, IC 32P CN181 1-526-660-21 o SOCKET, IC 32P CN185 1-526-656-00 o SOCKET, IC (DP) 20P
	CNI98 1-526-660-21 0 SOCKET, IC 32P CNI103 1-526-656-00 0 SOCKET, IC (DP) 20P CNI105 1-526-656-00 0 SOCKET, IC (DP) 20P CNI109 1-526-659-00 0 SOCKET, IC 28P CNI119 1-526-656-00 0 SOCKET, IC (DP) 20P
	D2 8-719-940-99 s LED SLR-34VC3, RED D3 8-719-940-99 s LED SLR-34VC3, RED D4 8-719-940-99 s LED SLR-34VC3, RED D5 8-719-940-99 s LED SLR-34VC3, RED D6 8-719-940-99 s LED SLR-34VC3, RED
	D7 8-719-940-99 s LED SLR-34VC3, RED D8 8-719-940-99 s LED SLR-34VC3, RED D9 8-719-901-68 s LED GL-6R202, RED D10 8-719-400-18 s DIODE MA152WK D11 8-719-940-99 s LED SLR-34VC3, RED
	D12 8-719-940-99 s LED SLR-34VC3, RED 8-719-109-84 s DIODE RD5.1ES-B1

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CPU-147 BOARD
(CPU-131 BOARD)
                                                                                                                                                                    Ref. No. or Q'ty Part No.
Ref. No. or Q'ty Part No.
                                                                                                                                                                                                                          SP Description
                                                       SP Description
                                                                                                                                                                                           A-8271-809-A O MOUNTED CIRCUIT BOARD, CPU-147
3-166-184-01 O LEVER, PC BOARD
3-166-185-01 S NUT, PLATE
7-622-207-05 S N 2.6, TYPE 2
7-626-320-11 S PIN, SPRING 3X8
                       8-759-156-82 0 IC GAL16V8-CPU1311V1, PLD
8-759-243-78 s IC TC74AC139F
8-759-243-39 s IC TC74AC00F
8-759-243-62 s IC TC74AC32F
8-759-985-60 s IC 74AC273SJ
IC119
                                                                                                                                                                     1pc
IC120
                                                                                                                                                                     2pcs
IC121
                                                                                                                                                                     2pcs
IC122
                                                                                                                                                                     2pcs
IC123
                                                                                                                                                                     2pcs
                      8-759-926-77 s IC SN74HC541NS
8-759-244-25 s IC TC74AC245F
8-759-244-75 s IC TC74AC541F
8-759-244-50 s IC TC74AC367F
8-759-923-65 s IC AM26LS31CNS
                                                                                                                                                                                          7-628-254-40 s SCREW +PS 2.6X12
7-682-948-01 s SCREW +PSW 3X8
1-526-653-21 s SOCKET, IC (DP) 14P
                                                                                                                                                                     6pcs
IC124
IC125
                                                                                                                                                                    8pcs
                                                                                                                                                                    1pc
IC126
IC127
IC128
                                                                                                                                                                    BT1
                                                                                                                                                                                           1-528-180-11 s BATTERY, NICKEL-CADMIUM
                                                                                                                                                                                          1-126-396-11 s ELECT, CHIP 47uF 20% 16V
1-126-396-11 s ELECT, CHIP 47uF 20% 16V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V
                      1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0
R25
                                                                                                                                                                    C22
R26
                                                                                                                                                                    C23
R27
R28
                                                                                                                                                                                          1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
                      1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
                                                                                                                                                                    C28
                                                                                                                                                                    C29
R55
                                                                                                                                                                    C30
R61
                                                                                                                                                                    C31
R65
                      1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-218-776-11 s METAL, CHIP 1M 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W
                                                                                                                                                                                          1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
1-163-235-11 s CERAMIC, CHIP 22PF 5% 50V
R76
                                                                                                                                                                    C34
R81
                                                                                                                                                                                           1-564-133-11 o CONNECTOR, FLAT CABLE 20P, MALE 1-506-484-11 s CONNECTOR, 5P, MALE
                       1-231-407-00 s RESISTOR BLOCK 2.2Kx8
1-231-407-00 s RESISTOR BLOCK 2.2Kx8
                                                                                                                                                                    CN2
RB2
                                                                                                                                                                                          1-540-129-11 s SOCKET, IC (PGA) 114P
1-526-996-11 s SOCKET, IC (PGA) 68P
1-526-656-00 o SOCKET, IC (DP) 20P
1-526-656-00 o SOCKET, IC (DP) 20P
1-526-656-00 o SOCKET, IC (DP) 20P
                       1-231-407-00 S RESISTOR BLOCK 2.2Kx8
1-231-385-00 S RESISTOR BLOCK 4.7Kx8
1-231-405-00 S RESISTOR BLOCK 1Kx8
RB3
                                                                                                                                                                    CNI2
RRA
                                                                                                                                                                    CNI19
RB5
                                                                                                                                                                    CNI<sub>20</sub>
                      1-231-410-00 s RESISTOR BLOCK 10Kx8
1-231-385-00 s RESISTOR BLOCK 4.7Kx8
                                                                                                                                                                    CNI31
RB6-11
RB12
                                                                                                                                                                                          1-540-069-11 s SOCKET, IC 84P
1-251-071-11 s SOCKET, IC (PGA) 100P
1-526-816-21 o SOCKET, IC (DP) 24P
1-526-656-00 o SOCKET, IC (DP) 20P
1-526-656-00 o SOCKET, IC (DP) 20P
                                                                                                                                                                    CNI98
RB13
RB14
                                                                                                                                                                    CNI201
                                                                                                                                                                    CNI203
RB15
                                                                                                                                                                    CNI204
RB16 1-231-385-00 S RESISTOR BLOCK 4.7Kx8
RB17-19 1-231-410-00 S RESISTOR BLOCK 10Kx8
RB20 1-231-385-00 S RESISTOR BLOCK 4.7Kx8
                                                                                                                                                                    CNI 205
                                                                                                                                                                                          1-526-816-21 o SOCKET, IC (DP) 24P
1-526-656-00 o SOCKET, IC (DP) 20P
1-526-816-21 o SOCKET, IC (DP) 24P
1-526-660-21 o SOCKET, IC 32P
1-526-660-21 o SOCKET, IC 32P
                                                                                                                                                                    CNI 206
                                                                                                                                                                    CNI207
CNI208
                        1-570-266-11 s SWITCH, PUSH
                       1-570-266-11 s SWITCH, PUSH
1-570-623-11 s SWITCH, DIP 8-CKT
1-570-266-11 s SWITCH, PUSH
1-570-623-11 s SWITCH, DIP 8-CKT
                                                                                                                                                                    CNI209
                                                                                                                                                                    CNI210
                                                                                                                                                                                          1-526-660-21 o SOCKET, IC 32P
1-526-660-21 o SOCKET, IC 32P
1-526-659-00 o SOCKET, IC 38P
1-526-660-21 o SOCKET, IC 32P
S5
                                                                                                                                                                     CNI211
                                                                                                                                                                    CNI212
                       1-577-170-11 s OSCILLATOR, CRYSTAL 50.00MHz
1-567-787-11 s OSCILLATOR, CRYSTAL 32.00000MHz
1-567-812-11 s RESONATOR, CERAMIC 12.288MHz
1-579-888-11 s RESONATOR, CERAMIC 18.432MHz
                                                                                                                                                                     CNI216
X1
X2
                                                                                                                                                                     CNI217
                                                                                                                                                                     CNX1
                                                                                                                                                                                            1-565-207-21 s CONNECTOR, DIN 128P, MALE
                                                                                                                                                                     CNY1
                                                                                                                                                                                           1-565-207-21 s CONNECTOR, DIN 128P, MALE
                                                                                                                                                                     CNZ1
                                                                                                                                                                                           1-506-748-11 o CONNECTOR, DIN 96P, MALE
                                                                                                                                                                     COP2
                                                                                                                                                                                           1-562-579-21 s PLUG, SHORTING
                                                                                                                                                                                           1-566-391-11 o CONNECTOR 12P, MALE 1-564-948-21 o PIN, SHORTING
                                                                                                                                                                     COR1
                                                                                                                                                                     COR2
                                                                                                                                                                                           8-719-400-35 s LED LN35BP, GRN
8-719-400-35 s LED LN35BP, GRN
8-719-400-35 s LED LN35BP, GRN
8-719-400-35 s LED LN35BP, GRN
8-719-800-60 s LED TLR214, RED
                                                                                                                                                                    D1
                                                                                                                                                                    D2
D3
                                                                                                                                                                     D4
```

(CPU-147	7 BOARD)	(CPU-14	7 BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No or Q'ty	Part No. SP Description
D6	8-719-982-04 s DIODE ERB81-004	IC27	8-759-244-25 s IC TC74AC245F
D7	8-719-400-35 s LED LN35BP, GRN	IC31	8-759-159-92 o IC GAL16V8-S-RAMDECV1, PLD
D8	8-719-800-76 s DIODE 1SS226	IC32	8-759-243-74 s IC TC74AC138F
D9	8-719-800-76 s DIODE 1SS226	IC33	8-759-243-74 s IC TC74AC138F
D10	8-719-800-76 s DIODE 1SS226	IC34	8-759-243-74 s IC TC74AC138F
D11	8-719-800-76 s DIODE 1SS226	IC35	8-759-243-74 s IC TC74AC138F
D12	8-719-800-76 s DIODE 1SS226	IC36	8-759-045-27 s IC UPD431000AGW-70L
D13	8-719-800-76 s DIODE 1SS226	IC37	8-759-045-27 s IC UPD431000AGW-70L
D14	8-719-800-76 s DIODE 1SS226	IC38	8-759-045-27 s IC UPD431000AGW-70L
D15	8-719-800-76 s DIODE 1SS226	IC39	8-759-045-27 s IC UPD431000AGW-70L
D16	8-719-800-76 s DIODE 1SS226	IC40	8-759-045-27 s IC UPD431000AGW-70L
D17	8-719-800-76 s DIODE 1SS226	IC41	8-759-045-27 s IC UPD431000AGW-70L
D18	8-719-800-76 s DIODE 1SS226	IC42	8-759-045-27 s IC UPD431000AGW-70L
D19	8-719-800-76 s DIODE 1SS226	IC43	8-759-045-27 s IC UPD431000AGW-70L
D20	8-719-800-76 s DIODE 1SS226	IC44	8-759-045-27 s IC UPD431000AGW-70L
D21	8-719-800-76 s DIODE 1SS226	IC45	8-759-045-27 s IC UPD431000AGW-70L
D22	8-719-800-76 s DIODE 1SS226	IC46	8-759-045-27 s IC UPD431000AGW-70L
D23	8-719-800-76 s DIODE 1SS226	IC47	8-759-045-27 s IC UPD431000AGW-70L
D24	8-719-800-76 s DIODE 1SS226	IC52	8-759-243-78 s IC TC74AC139F
D25	8-719-800-76 s DIODE 1SS226	IC53	8-759-243-06 s IC TC74AC04F
D26	8-719-800-76 s DIODE 1SS226	IC54	8-759-998-41 s IC MB89394-PF
D27	8-719-400-35 s LED LN35BP, GRN	IC55	8-759-973-34 s IC RTC-62421B
D28	8-719-400-35 s LED LN35BP, GRN	IC56	8-759-243-74 s IC TC74AC138F
D29	8-719-400-35 s LED LN35BP, GRN	IC57	8-759-065-85 s IC MAX232N
D30	8-719-400-35 s LED LN35BP, GRN	IC58	8-759-973-43 s IC MB8421-90LPFQ
D31	8-719-400-35 s LED LN35BP, GRN	IC59	8-759-555-91 s IC HD647180FS-SIO-V1.1
D32		IC60	8-759-973-43 s IC MB8421-90LPFQ
D33		IC61	8-759-555-91 s IC HD647180FS-SIO-V1.1
D34		IC62	8-759-973-43 s IC MB8421-90LPFQ
D35		IC63	8-759-555-91 s IC HD647180FS-SIO-V1.1
D36	8-719-821-58 s DIODE 1SS271	IC64	8-759-926-12 s IC SN74HC139NS
D37	8-719-821-58 s DIODE 1SS271	IC65	8-759-926-12 s IC SN74HC139NS
D38	8-719-821-58 s DIODE 1SS271	IC66	8-759-243-06 s IC TC74AC04F
D39	8-719-821-58 s DIODE 1SS271	IC67	8-759-065-85 s IC MAX232N
D40	8-719-821-58 s DIODE 1SS271	IC68	8-759-008-57 s IC MC34051P
D41	8-719-821-58 s DIODE 1SS271	IC69	8-759-008-57 s IC MC34051P
D42	8-719-821-58 s DIODE 1SS271	IC70	8-759-008-57 s IC MC34051P
F1 A	1-576-031-11 s FUSE 10A 125V 1-576-031-11 s FUSE 10A 125V	IC71 IC72 IC73	8-759-244-10 s IC TC74AC174F 8-759-938-68 s IC CXD1095Q 8-759-938-68 s IC CXD1095Q
IC2	8-759-030-45 s IC MC68882RC25	IC74	8-759-044-95 s IC MC14495P
IC3	8-759-505-28 s IC MAX691CPE	IC75	8-759-044-95 s IC MC14495P
IC4	8-759-927-46 s IC SN74HC00NS	IC76	8-759-244-71 s IC TC74AC540F
IC5	8-759-243-09 s IC TC74AC74F	IC77	8-759-506-91 s IC ICL7621BCSA
IC7	8-759-243-39 s IC TC74AC00F	IC78	8-759-506-91 s IC ICL7621BCSA
IC8	8-759-992-03 s IC 74F38SJ	IC79	8-759-100-96 s IC UPC4558G2
IC9	8-759-243-62 s IC TC74AC32F	IC80	8-759-231-93 s IC TC74HC4051AF
IC10	8-759-926-74 s IC SN74HC393NS	IC81	8-759-505-29 s IC SM6103S
IC11	8-759-243-06 s IC TC74AC04F	IC82	8-759-505-00 s IC CXD8052Q
IC17	8-759-244-75 s IC TC74AC541F	IC83	8-759-945-30 s IC SN75ALS194N
IC18	8-759-244-75 s IC TC74AC541F	IC84	8-759-945-30 s IC SN75ALS194N
IC19	8-759-244-24 s IC TC74AC245P	IC85	8-759-505-27 s IC SN75ALS195J
IC20	8-759-244-24 s IC TC74AC245P	IC86	8-759-505-27 s IC SN75ALS195J
IC21	8-759-244-75 s IC TC74AC541F	IC87	8-759-243-90 s IC TC74AC157F
IC22	8-759-244-75 s IC TC74AC541F	IC96	8-759-243-06 s IC TC74AC04F
IC23	8-759-244-75 s IC TC74AC541F	IC97	8-759-973-43 s IC MB8421-90LPFQ
IC24	8-759-244-25 s IC TC74AC245F	IC98	8-759-555-92 s IC HD647180CP-SIO-V1.1
IC25	8-759-244-25 s IC TC74AC245F	IC102	8-759-008-57 s IC MC34051P
IC26	8-759-244-25 s IC TC74AC245F	IC104	8-759-506-92 s IC LT1009CZ

(CPU-147	BOARD)	DA-71 BC	ARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
IC105 IC106 IC107 IC201 IC202	8-759-243-06 s IC TC74AC04F 8-759-243-06 s IC TC74AC04F 8-759-243-74 s IC TC74AC138F 8-759-098-88 s IC MC68EC020RP25 8-759-243-09 s IC TC74AC74F	2pcs 4pcs 2pcs 4pcs	3-166-184-01 o LEVER, PC BOARD 7-622-207-05 s N 2.6, TYPE 2 7-626-320-11 s PIN, SPRING 3X8 7-628-254-40 s SCREW +PS 2.6X12
IC203 IC204 IC205 IC206	8-759-159-86 o IC GAL20V8-S-RADCOV1, PLD 8-759-159-89 o IC GAL16V8-S-QADCOV1, PLD 8-759-159-90 o IC GAL16V8-S-ACK-1V1, PLD 8-759-159-87 o IC GAL20V8-S-ACK-2V1, PLD	C105 C106 C224 C226 C227	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-085-00 s CERAMIC, CHIP 2PF 50V 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V
IC208 IC209 IC210 IC211 IC212	8-759-159-88 o IC GAL20V8-S-FMWTV1, PLD 8-759-098-89 s IC AM29F010-70PC 8-759-098-89 s IC AM29F010-70PC 8-759-098-89 s IC AM29F010-70PC 8-759-098-89 s IC AM29F010-70PC 8-759-098-89 s IC AM29F010-70PC	C406 C414 C416 C418	1-164-232-11 S CERAMIC 0.01uF 10% 100V 1-163-085-00 S CERAMIC, CHIP 2PF 50V 1-135-211-11 S TANTALUM, CHIP 6.8uF 20% 6.3V 1-135-211-11 S TANTALUM, CHIP 6.8uF 20% 6.3V
IC213 IC214 IC215 IC216	8-759-244-75 s IC TC74AC541F 8-759-244-75 s IC TC74AC541F 8-759-244-25 s IC TC74AC245F 8-759-066-10 s IC HN58C256P-20	CN6 CN7	1-566-513-11 s CONNECTOR, FPC 13P 1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE 1-569-170-11 o CONNECTOR, COAXIAL, MALE 1-506-748-11 o CONNECTOR, DIN 96P, MALE
L1	1-412-031-11 s INDUCTOR, CHIP 47uH	CNY2	1-506-748-11 o CONNECTOR, DIN 96P, MALE
L2 ND1	1-412-031-11 s INDUCTOR, CHIP 47uH 8-719-901-68 s LED GL-6R202, RED	CV200 CV400	1-141-423-61 s CAP, TRIMMER 20PF 1-141-423-61 s CAP, TRIMMER 20PF
Q1	8-729-205-02 s TRANSISTOR 2SA1150-Y	D3	8-719-421-11 s DIODE LN15BP
R121 R123 R207	1-216-682-11 s METAL, CHIP 20K 0.5% 1/10W 1-216-662-11 s METAL, CHIP 3K 0.5% 1/10W 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W		1-236-174-11 s FILTER, LOW-PASS 1-236-174-11 s FILTER, LOW-PASS
RB1 RB2-12	1-216-615-11 s METAL, CHIP 33 0.5% 1/10W 1-231-387-00 s COMPOSITION CIRCUIT BLOCK 1-231-410-00 s RESISTOR BLOCK 10Kx8 1-515-797-11 s RELAY 1-515-797-11 s RELAY	IC2 IC100 IC101 IC102	8-759-057-32 s IC CAT35C104K 8-759-948-40 s IC DS1000M-50 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
RY1 RY2 RY3 RY4 RY5	1-515-797-11 s RELAY 1-515-797-11 s RELAY 1-515-797-11 s RELAY 1-515-797-11 s RELAY 1-515-797-11 s RELAY	IC200 IC201 IC202 IC203	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-505-06 s IC CXD8058Q 8-759-505-02 s IC CXD8053Q 8-759-071-82 s IC CXD8364Q
RY6 RY7	1-515-797-11 s RELAY 1-515-797-11 s RELAY	1C205	8-759-099-78 s IC CXD8338AQ
S1 S2 S3 S4 S5	1-553-812-00 s SWITCH, PUSH 1-553-812-00 s SWITCH, PUSH 1-570-623-11 s SWITCH, DIP 8-CKT 1-554-303-21 s SWITCH, PUSH 1-554-303-21 s SWITCH, PUSH	IC206 IC207 IC209 IC211 IC212	8-759-926-24 s IC SN74HC164NS 8-759-926-45 s IC SN74HC241ANS 8-752-015-81 s IC CX20158 8-752-020-11 s IC CX20201A-1 8-759-098-17 s IC LT1191CS8
TH1	1-809-179-11 s THERMISTOR 1k 102AT-2	IC213 IC214 IC215	8-759-518-79 s IC MB88325PF 8-752-015-81 s IC CX20158 8-752-015-81 s IC CX20158
X1 X2	1-577-170-11 s OSCILLATOR, CRYSTAL 50.00MHz 1-577-382-11 s VCO, CRYSTAL 16.000MHz	IC216 IC217	8-759-244-15 s IC TC74AC240F 8-752-202-90 s IC CX22029
X3 X4 X5 X6	1-567-812-11 s RESONATOR, CERAMIC 12.288MHz 1-567-812-11 s RESONATOR, CERAMIC 12.288MHz 1-567-812-11 s RESONATOR, CERAMIC 12.288MHz	IC218 IC300 IC301 IC302	8-759-012-02 s IC MC10H124M 8-759-233-44 s IC TC74HC595AF 8-759-076-03 s IC MB88346BPF 8-759-908-92 s IC TL084CNS
		IC303 IC400 IC401 IC402 IC406	8-759-506-92 s IC LT1009CZ 8-759-505-06 s IC CXD8058Q 8-759-099-78 s IC CXD8338AQ 8-759-421-09 s IC MN6557AS 8-759-098-17 s IC LT1191CS8
		L100 L200	1-408-785-21 s INDUCTOR CHIP 47UH 1-408-777-00 s INDUCTOR, CHIP 10uH

(DA-71 BOARD)

Ref. No. or Q'ty Part No. SP Description 1-408-777-00 s INDUCTOR, CHIP 10UH 1-408-797-11 s INDUCTOR CHIP 470UH 1-408-777-00 s INDUCTOR, CHIP 10UH L201 L400 L401 8-729-175-72 s TRANSISTOR 2SC2757-T33 8-729-112-65 s TRANSISTOR 2SA1462-Y33 8-729-175-72 s TRANSISTOR 2SC2757-T33 Q100 0101 Q400 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-634-11 s METAL, CHIP 200 0.5% 1/10W 1-216-666-11 s METAL, CHIP 4.3K 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W R120 R123 R249 R252 R253 1-216-657-11 s METAL, CHIP 1.8K 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W R256 R260 R264 R270 R271 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W R302 R305 R306 R311 R312 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-666-11 s METAL, CHIP 4.3% 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6% 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W R400 R401 R402 R404 R405 1-216-640-11 s METAL, CHIP 360 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1% 0.5% 1/10W 1-216-669-11 s METAL, CHIP 5.6% 0.5% 1/10W R408 R409 R421 S1 1-571-146-11 s SWITCH, ROTARY

DA-73 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc	9-911-849-XX o CUSHION
C10 C13	1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V 1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V
CNA1	1-750-074-11 o PIN, SIL 10P
CNB1	1-750-074-11 o PIN, SIL 10P
CNC1	1-750-074-11 o PIN, SIL 10P
CND1	1-750-074-11 o PIN, SIL 10P
CNE1	1-750-074-11 o PIN, SIL 10P
FL1	1-236-174-11 s FILTER, LOW-PASS
IC4 IC5	8-759-099-78 s IC CXD8338AQ 8-752-202-90 s IC CX22029 8-752-020-11 s IC CX20201A-1 8-759-098-17 s IC LT1191CS8 8-759-098-16 s IC LT1227CS8
IC8 IC9 IC10	8-759-098-16 s IC LT1227CS8 8-759-908-17 s IC TL082CPS 8-759-057-32 s IC CAT35C104K
L1 L2	1-408-777-00 s INDUCTOR, CHIP 10uH 1-408-777-00 s INDUCTOR, CHIP 10uH
R1 R2 R3 R4 R5	1-216-640-11 s METAL, CHIP 360 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0
R6 R8 R9 R19 R22	1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-681-11 s METAL, CHIP 18K 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W
R23	1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W

DSK-9 BOARD	(DSK-9 B	OARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc A-8271-808-A o MOUNTED CIRCUIT BOARD, DSK-9 2pcs 3-166-184-01 o LEVER, PC BOARD 2pcs 3-166-185-01 s NUT, PLATE 2pcs 7-622-207-05 s N 2.6, TYPE 2 2pcs 7-626-320-11 s PIN, SPRING 3X8		8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-505-05 s IC CXD8055 8-759-504-99 s IC CXD8065 8-759-504-98 s IC CXD8056Q
6pcs 7-628-254-40 s SCREW +PS 2.6X12 8pcs 7-682-948-01 s SCREW +PSW 3X8 C1 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V C2 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC120 IC121 IC122 IC123 IC124	8-759-504-98 s IC CXD8056Q 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
CNX1 1-565-207-21 s CONNECTOR, DIN 128P, MALE CNY1 1-565-207-21 s CONNECTOR, DIN 128P, MALE		8-759-504-98 s IC CXD8056Q 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
COP1 1-564-948-21 o PIN, SHORTING COR1 1-562-579-21 s PLUG, SHORTING D1 8-719-800-76 s DIODE 1SS226	IC130 IC131 IC132 IC133 IC135	8-759-504-98 s IC CXD8056Q 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-504-91 s IC CXD8062Q
F1	IC136 IC139 IC140 IC142 IC143	8-759-504-91 s IC CXD8062Q 8-759-504-91 s IC CXD8062Q 8-759-504-91 s IC CXD8062Q 8-759-505-05 s IC CXD8055 8-759-243-50 s IC TC74AC08F
IC4 8-759-057-32 s IC CAT35C104K IC5 8-759-234-77 s IC TC4S66F IC7 8-759-244-75 s IC TC74AC541F IC8 8-759-244-71 s IC TC74AC540F IC9 8-759-244-75 s IC TC74AC541F IC20 8-759-926-82 s IC SN74HC574ANS	IC144 IC145 IC147 IC148 IC149	8-759-243-50 s IC TC74AC08F 8-759-243-50 s IC TC74AC08F 8-759-505-05 s IC CXD8055 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
IC21 8-759-243-09 s IC TC74AC74F IC22 8-759-320-87 s IC HM63021P-28 IC30 8-759-244-71 s IC TC74AC540F	IC150 IC151 IC152 IC153 IC155	8-759-926-82 s IC SN74HC574ANS 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC33 8-759-244-71 s IC TC74AC540F IC34 8-759-244-71 s IC TC74AC540F IC35 8-759-244-75 s IC TC74AC541F	IC156 IC157 IC158 IC164 IC165	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-244-75 s IC TC74AC541F 8-759-244-75 s IC TC74AC541F
IC38 8-759-244-15 s IC TC74AC240F IC39 8-759-244-75 s IC TC74AC541F IC51 8-759-505-06 s IC CXD8058Q IC52 8-759-505-06 s IC CXD8058Q IC54 8-759-505-06 s IC CXD8058Q	IC303 IC304 IC305 IC306 IC307	8-759-504-97 s IC CXD8190Q 8-759-504-97 s IC CXD8190Q 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
IC55 8-759-505-06 s IC CXD8058Q IC56 8-759-505-06 s IC CXD8058Q IC57 8-759-505-06 s IC CXD8058Q IC58 8-759-505-06 s IC CXD8058Q IC100 8-759-505-02 s IC CXD8053Q	IC308 IC309 IC310 IC311 IC312	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
IC101 8-759-926-82 s IC SN74HC574ANS IC102 8-759-926-82 s IC SN74HC574ANS IC103 8-759-244-75 s IC TC74AC541F IC104 8-759-244-75 s IC TC74AC541F IC105 8-759-320-87 s IC HM63021P-28	IC315 IC317 IC319 IC321 IC323	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-504-97 s IC CXD8190Q
IC106 8-759-320-87 s IC HM63021P-28 IC107 8-759-320-87 s IC HM63021P-28 IC108 8-759-320-87 s IC HM63021P-28 IC108 8-759-320-87 s IC HM63021P-28	IC325 IC327 IC329 IC331	8-759-986-36 s IC 74ACT257SJ 8-759-986-36 s IC 74ACT257SJ 8-759-986-36 s IC 74ACT257SJ 8-759-986-36 s IC 74ACT257SJ

(DSK-9 BOARD)			
Ref. No. or Q'ty	Part No. SP Description		
IC335 IC337 IC343	8-759-986-36 s IC 74ACT257SJ 8-759-986-36 s IC 74ACT257SJ 8-759-504-91 s IC CXD8062Q 8-759-504-91 s IC CXD8062Q 8-759-504-91 s IC CXD8062Q		
IC357	8-759-504-91 s IC CXD8062Q 8-759-948-31 s IC CXD1319AQ 8-759-504-91 s IC CXD8062Q 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS		
IC373	8-759-504-91 s IC CXD8062Q 8-759-504-97 s IC CXD8190Q 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-926-82 s IC SN74HC574ANS		
IC376 IC377			
R8 R9 R16	1-216-619-11 s METAL, CHIP 47 0.5% 1/10W 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W		
TH1	1-809-179-11 s THERMISTOR 1k 102AT-2		

DSK-9(A) BOARD	
Ref. No. or Q'ty Part No. SP Description	
1pc A-8271-890-A o MOUNTED CIRCUIT BOARD, DSK-9 (A) 2pcs 3-166-184-01 o LEVER, PC BOARD 2pcs 3-166-185-01 s NUT, PLATE 6pcs 7-621-259-75 s SCREW +P 2.6X12 2pcs 7-622-207-05 s N 2.6, TYPE 2	
2pcs 7-626-320-11 s PIN, SPRING 3X8 8pcs 7-682-948-01 s SCREW +PSW 3X8	
C1 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V C2 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	
CNX1 1-565-207-21 s CONNECTOR, DIN 128P, MALE	
CNY1 1-565-207-21 s CONNECTOR, DIN 128P, MALE	
CNZ1 1-506-748-11 o CONNECTOR, DIN 96P, MALE	
COP1 1-564-948-21 o PIN, SHORTING	
COR1 1-562-579-21 s PLUG, SHORTING	
D1 8-719-800-76 s DIODE 1SS226	
F1 <u>A1-576-031-11</u> s FUSE 10A 125V	
IC1 8-759-505-27 s IC SN75ALS195J IC2 8-759-945-30 s IC SN75ALS194N IC3 8-759-505-00 s IC CXD8052Q IC4 8-759-057-32 s IC CAT35C104K IC5 8-759-234-77 s IC TC4S66F	
IC7 8-759-244-75 s IC TC74AC541F IC8 8-759-244-71 s IC TC74AC540F IC9 8-759-244-75 s IC TC74AC541F IC20 8-759-926-82 s IC SN74HC574ANS IC21 8-759-243-09 s IC TC74AC74F	
IC22 8-759-320-87 s IC HM63021P-28 IC30 8-759-244-71 s IC TC74AC540F IC31 8-759-244-15 s IC TC74AC240F IC32 8-759-244-71 s IC TC74AC540F IC33 8-759-244-71 s IC TC74AC540F	
IC34 8-759-244-71 s IC TC74AC540F IC35 8-759-244-75 s IC TC74AC541F IC36 8-759-926-23 s IC SN74HC163NS IC37 8-759-243-09 s IC TC74AC74F IC38 8-759-244-15 s IC TC74AC240F	
IC39 8-759-244-75 s IC TC74AC541F IC51 8-759-505-06 s IC CXD8058Q IC52 8-759-505-06 s IC CXD8058Q IC53 8-759-505-06 s IC CXD8058Q IC54 8-759-505-06 s IC CXD8058Q	
IC55 8-759-505-06 s IC CXD8058Q IC56 8-759-505-06 s IC CXD8058Q IC57 8-759-505-06 s IC CXD8058Q IC58 8-759-505-06 s IC CXD8058Q IC100 8-759-505-02 s IC CXD8053Q	
IC101 8-759-926-82 s IC SN74HC574ANS IC102 8-759-926-82 s IC SN74HC574ANS IC103 8-759-244-75 s IC TC74AC541F IC104 8-759-244-75 s IC TC74AC541F IC105 8-759-320-87 s IC HM63021P-28	
IC106 8-759-320-87 s IC HM63021P-28 IC107 8-759-320-87 s IC HM63021P-28	

(DSK-9(A) BOARD)	(DSK-9(A) BOARD)	
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description	
Ref. No. or Q'ty Part No. SP Description IC108 8-759-320-87 s IC HM63021P-28 IC109 8-759-926-82 s IC SN74HC574ANS IC110 8-759-926-82 s IC SN74HC574ANS IC111 8-759-505-05 s IC CXD8055 IC112 8-759-504-99 s IC CXD8065	IC316 8-759-320-87 s IC HM63021P- IC317 8-759-320-87 s IC HM63021P- IC318 8-759-320-87 s IC HM63021P- IC319 8-759-320-87 s IC HM63021P- IC320 8-759-320-87 s IC HM63021P-	28 28 28
IC113 8-759-926-82 s IC SN74HC574ANS IC114 8-759-926-82 s IC SN74HC574ANS IC115 8-759-926-82 s IC SN74HC574ANS IC119 8-759-504-98 s IC CXD8056Q IC120 8-759-320-87 s IC HM63021P-28 IC122 8-759-320-87 s IC HM63021P-28 IC123 8-759-320-87 s IC HM63021P-28 IC124 8-759-320-87 s IC HM63021P-28 IC125 8-759-320-87 s IC HM63021P-28 IC125 8-759-304-98 s IC CXD8056Q	IC321 8-759-320-87 s IC HM63021P- IC322 8-759-320-87 s IC HM63021P- IC323 8-759-504-97 s IC CXD8190Q IC325 8-759-986-36 s IC 74ACT257S. IC326 8-759-986-36 s IC 74ACT257S.	28 J
IC121 8-759-320-87 s IC HM63021P-28 IC122 8-759-320-87 s IC HM63021P-28 IC123 8-759-320-87 s IC HM63021P-28 IC124 8-759-320-87 s IC HM63021P-28 IC125 8-759-504-98 s IC CXD8056Q	IC327 8-759-986-36 S IC 74ACT257S. IC328 8-759-986-36 S IC 74ACT257S. IC329 8-759-986-36 S IC 74ACT257S. IC330 8-759-986-36 S IC 74ACT257S. IC331 8-759-986-36 S IC 74ACT257S.]]]
IC126 8-759-320-87 s IC HM63021P-28 IC127 8-759-320-87 s IC HM63021P-28 IC128 8-759-320-87 s IC HM63021P-28 IC129 8-759-320-87 s IC HM63021P-28 IC130 8-759-504-98 s IC CXD8056Q	IC332 8-759-986-36 S IC 74ACT257S. IC333 8-759-986-36 S IC 74ACT257S. IC334 8-759-986-36 S IC 74ACT257S. IC335 8-759-986-36 S IC 74ACT257S. IC336 8-759-986-36 S IC 74ACT257S.	<u>]</u>
IC131 8-759-320-87 s IC HM63021P-28 IC132 8-759-320-87 s IC HM63021P-28 IC133 8-759-320-87 s IC HM63021P-28 IC135 8-759-504-91 s IC CXD8062Q IC136 8-759-504-91 s IC CXD8062Q	IC337 8-759-504-91 s IC CXD8062Q IC338 8-759-504-91 s IC CXD8062Q IC343 8-759-504-91 s IC CXD8062Q IC344 8-759-504-91 s IC CXD8062Q IC349 8-759-504-91 s IC CXD8062Q	
IC139 8-759-504-91 s IC CXD8062Q IC140 8-759-504-91 s IC CXD8062Q IC142 8-759-505-05 s IC CXD8055 IC143 8-759-243-50 s IC TC74AC08F IC144 8-759-243-50 s IC TC74AC08F	IC350 8-759-504-91 s IC CXD8062Q IC355 8-759-504-91 s IC CXD8062Q IC356 8-759-504-91 s IC CXD8062Q IC357 8-759-948-31 s IC CXD1319AQ IC358 8-759-948-31 s IC CXD1319AQ	
IC139 8-759-504-91 S IC CXD8062Q IC140 8-759-504-91 S IC CXD8062Q IC142 8-759-505-05 S IC CXD8055 IC143 8-759-243-50 S IC TC74AC08F IC144 8-759-243-50 S IC TC74AC08F IC145 8-759-243-50 S IC TC74AC08F IC147 8-759-505-05 S IC CXD8055 IC148 8-759-926-82 S IC SN74HC574ANS IC149 8-759-926-82 S IC SN74HC574ANS IC150 8-759-926-82 S IC SN74HC574ANS	IC359 8-759-504-91 s IC CXD8062Q IC360 8-759-504-91 s IC CXD8062Q IC363 8-759-948-31 s IC CXD1319AQ IC364 8-759-948-31 s IC CXD1319AQ IC365 8-759-926-82 s IC SN74HC5744	
IC151 8-759-320-87 s IC HM63021P-28 IC152 8-759-320-87 s IC HM63021P-28 IC153 8-759-320-87 s IC HM63021P-28 IC155 8-759-320-87 s IC HM63021P-28 IC156 8-759-320-87 s IC HM63021P-28	IC366 8-759-926-82 S IC SN74HC5744 IC367 8-759-504-91 S IC CXD8062Q IC368 8-759-504-91 S IC CXD8062Q IC371 8-759-504-97 S IC CXD8190Q IC373 8-759-244-85 S IC TC74AC5741	•
IC157 8-759-320-87 s IC HM63021P-28 IC158 8-759-320-87 s IC HM63021P-28 IC159 8-759-320-87 s IC HM63021P-28 IC160 8-759-320-87 s IC HM63021P-28 IC161 8-759-320-87 s IC HM63021P-28	IC374 8-759-244-85 s IC TC74AC5741 IC375 8-759-926-82 s IC SN74HC5744 IC376 8-759-926-82 s IC SN74HC5744 IC377 8-759-244-85 s IC TC74AC5741	ANS ANS
IC162 8-759-320-87 s IC HM63021P-28 IC164 8-759-244-75 s IC TC74AC541F IC165 8-759-244-75 s IC TC74AC541F	R8 1-216-619-11 s METAL, CHIP 4 R9 1-216-619-11 s METAL, CHIP 4 R16 1-216-619-11 s METAL, CHIP 4	47 O.5% 1/10W
IC303 8-759-504-97 s IC CXD8190Q IC304 8-759-504-97 s IC CXD8190Q	TH1 1-809-179-11 s THERMISTOR 1	k 102AT-2
IC305 8-759-244-85 s IC TC74AC574F IC306 8-759-244-85 s IC TC74AC574F IC307 8-759-244-85 s IC TC74AC574F IC308 8-759-244-85 s IC TC74AC574F IC309 8-759-244-85 s IC TC74AC574F		
IC310 8-759-926-82 s IC SN74HC574ANS IC311 8-759-926-82 s IC SN74HC574ANS IC312 8-759-926-82 s IC SN74HC574ANS IC315 8-759-320-87 s IC HM63021P-28		

IF-403(A)	BOARD	IF-403(B	BOARD
Ref. No. or Q'ty Pa	art No. SP Description	Ref. No. or Q'ty	Part No. SP Description
2pcs 7- 2pcs 7-	-8271-796-A o MOUNTED CIRCUIT BOARD, IF-403 (A) -621-772-58 s SCREW +B 2X10 -622-205-05 s NUT M2 TYPE2	zpcs	A-8271-715-A O MOUNTED CIRCUIT BOARD, IF-403 (B) 7-621-772-58 s SCREW +B 2X10 7-622-205-05 s NUT M2 TYPE2
C2 1- C3 1- C4 1- C200 1- C201 1-	-126-396-11 s ELECT, CHIP 47uF 20% 16V -163-251-11 s CERAMIC, CHIP 100PF 5% 50V -163-251-11 s CERAMIC, CHIP 100PF 5% 50V -126-396-11 s ELECT, CHIP 47uF 20% 16V -126-396-11 s ELECT, CHIP 47uF 20% 16V	C2 C3 C4 C200 C201	1-126-396-11 s ELECT, CHIP 47uF 20% 16V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-126-396-11 s ELECT, CHIP 47uF 20% 16V 1-126-396-11 s ELECT, CHIP 47uF 20% 16V
CN1 1- CN2 1- CN3 1- CN4 1- CN5 1-	-568-064-11 o CONNECTOR, TX 50P, MALE -580-341-11 o CONNECTOR, DIN 80P, FEMALE -580-192-11 o HEADDER, TX-3 50P, MALE -506-483-21 o CONNECTOR 4P, MALE -564-607-11 o CONNECTOR, VH 6P, MALE	CN1 CN2 CN3 CN4 CN5	1-568-064-11 o CONNECTOR, TX 50P, MALE 1-580-341-11 o CONNECTOR, DIN 80P, FEMALE 1-580-192-11 o HEADDER, TX-3 50P, MALE 1-506-483-21 o CONNECTOR 4P, MALE 1-564-607-11 o CONNECTOR, VH 6P, MALE
IC1 8- IC2 8- IC3 8- IC4 8- IC6 8-	-759-926-49 s IC SN74HC245NS -759-926-77 s IC SN74HC541NS -759-926-64 s IC SN74HC367ANS -759-923-64 s IC AM26LS32ACNS -759-156-83 o IC GAL16V8-IF403M/E1V1, PLD	IC1 IC2 IC3 IC4 IC6	8-759-926-49 s IC SN74HC245NS 8-759-926-77 s IC SN74HC541NS 8-759-926-64 s IC SN74HC367ANS 8-759-923-64 s IC AM26LS32ACNS 8-759-156-83 o IC GAL16V8-IF403M/E1V1, PLD
IC13 8- IC14 8- IC16 8-	-759-926-29 s IC SN74HC175NS -759-925-80 s IC SN74HC14NS -759-112-63 s IC UPD4701AC -759-234-67 s IC TMP82C79M-2 -759-926-77 s IC SN74HC541NS	IC12 IC13 IC14 IC16 IC17	8-759-926-29 s IC SN74HC175NS 8-759-925-80 s IC SN74HC14NS 8-759-112-63 s IC UPD4701AC 8-759-234-67 s IC TMP82C79M-2 8-759-926-77 s IC SN74HC541NS
IC19 8- IC20 8- IC21 8-	7-759-926-11 s IC SN74HC138NS 7-759-926-77 s IC SN74HC541NS 7-759-926-76 s IC SN74HC540NS 7-759-926-48 s IC SN74HC244NS 7-759-926-48 s IC SN74HC244NS	IC18 IC19 IC20 IC21 IC22	8-759-926-11 s IC SN74HC138NS 8-759-926-77 s IC SN74HC541NS 8-759-926-76 s IC SN74HC540NS 8-759-926-64 s IC SN74HC367ANS 8-759-926-64 s IC SN74HC367ANS
IC25 8- IC26 8- IC27 8-	-759-926-48 s IC SN74HC244NS -759-098-11 s IC TD62783F -759-098-12 s IC TD62083F -759-098-12 s IC TD62083F -759-926-64 s IC SN74HC367ANS	IC23 IC25 IC26 IC27 IC28	8-759-926-64 s IC SN74HC367ANS 8-759-098-11 s IC TD62783F 8-759-098-12 s IC TD62083F 8-759-098-12 s IC TD62083F 8-759-926-64 s IC SN74HC367ANS
IC30 8- IC31 8- IC32 8-	3-759-234-67 s IC TMP82C79M-2 3-759-926-77 s IC SN74HC541NS 3-759-926-11 s IC SN74HC138NS 3-759-926-76 s IC SN74HC540NS 3-759-098-12 s IC TD62083F	IC29 IC30 IC31 IC32 IC33	8-759-234-67 s IC TMP82C79M-2 8-759-926-77 s IC SN74HC541NS 8-759-926-11 s IC SN74HC138NS 8-759-926-76 s IC SN74HC540NS 8-759-098-12 s IC TD62083F
IC35 8 IC36 8 IC37 8	3-759-098-11 s IC TD62783F 3-759-926-11 s IC SN74HC138NS 3-759-098-12 s IC TD62083F 3-759-926-76 s IC SN74HC540NS 3-759-098-11 s IC TD62783F	IC34 IC35 IC36 IC37 IC38	8-759-098-11 s IC TD62783F 8-759-926-11 s IC SN74HC138NS 8-759-098-12 s IC TD62083F 8-759-926-76 s IC SN74HC540NS 8-759-098-11 s IC TD62783F
IC39 8	3-759-234-67 s IC TMP82C79M-2	IC39	8-759-234-67 s IC TMP82C79M-2
R49 1 R50 1 R51 1	1-215-861-00 s METAL 47 5% 1W 1-215-861-00 s METAL 47 5% 1W	R48 R49 R50 R51 R52	1-215-861-00 s METAL 47 5% 1W 1-215-861-00 s METAL 47 5% 1W
R54 1	1-215-861-00 s METAL 47 5% 1W 1-215-861-00 s METAL 47 5% 1W 1-215-861-00 s METAL 47 5% 1W	R53 R54 R55	1-215-861-00 s METAL 47 5% 1W 1-215-861-00 s METAL 47 5% 1W 1-215-861-00 s METAL 47 5% 1W
RB4 1 RB5-8 1	1-231-410-00 s RESISTOR BLOCK 10Kx8 1-231-533-00 s RESISTOR BLOCK 10Kx4 1-231-410-00 s RESISTOR BLOCK 10Kx8 1-231-385-00 s RESISTOR BLOCK 4.7Kx8	RB1-3 RB4 RB5-8 RB9	1-231-410-00 s RESISTOR BLOCK 10Kx8 1-231-533-00 s RESISTOR BLOCK 10Kx4 1-231-410-00 s RESISTOR BLOCK 10Kx8 1-231-385-00 s RESISTOR BLOCK 4.7Kx8

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(IF-404 BOARD)
IF-404 BOARD
                                                                                                                                Ref. No.
Ref. No.
or Q'ty Part No.
                                                                                                                                or Q'ty Part No.
                                                                                                                                                                          SP Description
                                          SP Description
                  A-8271-797-A o MOUNTED CIRCUIT BOARD, IF-404
7-621-772-58 s SCREW +B 2X10
7-622-205-05 s NUT M2 TYPE2
                                                                                                                                                  8-759-926-11 s IC SN74HC138NS
8-759-098-12 s IC TD62083F
8-759-926-76 s IC SN74HC540NS
8-759-098-11 s IC TD62783F
8-759-234-67 s IC TMP82C79M-2
1pc
                                                                                                                                IC53
IC54
6pcs
                                                                                                                                 IC55
                  1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-126-396-11 s ELECT, CHIP 47uF 20% 16V
1-126-396-11 s ELECT, CHIP 47uF 20% 16V
                                                                                                                                IC56
Č200
                                                                                                                                IC57
                                                                                                                                                  8-759-925-80 s IC SN74HC14NS
C201
                                                                                                                                R79
                                                                                                                                                  1-215-864-00 s METAL 150 5% 1W
                 1-565-784-11 s HEADDER, TX-3 60P, MALE
1-564-607-11 o CONNECTOR, VH 6P, MALE
1-506-469-11 s CONNECTOR 4P, MALE
1-565-784-11 s HEADDER, TX-3 60P, MALE
1-580-192-11 o HEADDER, TX-3 50P, MALE
                                                                                                                                                  1-215-864-00 s METAL 150 5% 1W
1-215-864-00 s METAL 150 5% 1W
                                                                                                                                R80
CN2
                                                                                                                                R81
CN3
                                                                                                                                R82
                                                                                                                                                  1-215-864-00 s METAL 150 5% 1W
                                                                                                                                                  1-215-864-00 s METAL 150 5% 1W
CN6
                                                                                                                                R83
CN7
                                                                                                                                                  1-215-864-00 s METAL 150 5% 1W
1-215-864-00 s METAL 150 5% 1W
1-215-864-00 s METAL 150 5% 1W
                                                                                                                                R84
                 1-580-341-11 o CONNECTOR, DIN 80P, FEMALE 1-580-341-11 o CONNECTOR, DIN 80P, FEMALE
CN8
                                                                                                                                R85
CN9
                                                                                                                                R86
                                                                                                                                RB1-3
                  8-719-400-18 s DIODE MA152WK
                                                                                                                                                  1-231-410-00 s RESISTOR BLOCK 10Kx8
                  8-719-104-34 s DIODE 1S2835
                                                                                                                                                  1-231-533-00 s RESISTOR BLOCK 10Kx4
D2
                                                                                                                                RB4
                                                                                                                                                  1-231-410-00 s RESISTOR BLOCK 10Kx8
                                                                                                                                RB5-10
                 8-759-926-49 s IC SN74HC245NS
8-759-926-77 s IC SN74HC541NS
8-759-926-64 s IC SN74HC367ANS
8-759-923-64 s IC AM26LS32ACNS
8-759-925-74 s IC TC74HC04NS
IC1
ĪC2
IC3
IC4
IC5
                 8-759-156-85 o IC GAL16V8-IF404V1, PLD
8-759-926-11 s IC SN74HC138NS
8-759-926-11 s IC SN74HC138NS
8-759-106-58 s IC UPD7004C
8-759-925-80 s IC SN74HC14NS
                                                                                                                                IF-418 BOARD
IC6
IC7
IC8
                                                                                                                                Ref. No.
                                                                                                                                or Q'ty Part No.
                                                                                                                                                                          SP Description
IC13
IC14
                 8-759-925-80 s IC SN74HC14NS
8-759-112-63 s IC UPD4701AC
8-759-112-63 s IC UPD4701AC
8-759-112-63 s IC UPD4701AC
IC15
IC16
                                                                                                                                                  1-107-210-00 s MICA 22PF 5% 500V
                                                                                                                                C11
                                                                                                                                C12
                                                                                                                                                  1-107-210-00 s MICA 22PF 5% 500V
IC17
IC18
                                                                                                                                                  1-565-689-11 o CONNECTOR, TX 60P, MALE
                                                                                                                                CN1
                  8-759-926-28 s IC SN74HC174NS
IC19
                                                                                                                                CNI1
                                                                                                                                                  1-540-069-11 s SOCKET, IC 84P
                 8-759-926-77 s IC SN74HC541NS
8-759-926-77 s IC SN74HC541NS
8-759-926-77 s IC SN74HC541NS
8-759-926-11 s IC SN74HC138NS
8-759-098-12 s IC TD62083F
IC20
                                                                                                                                                  1-563-859-11 s PLUG, SHORTING
1-563-859-11 s PLUG, SHORTING
1-563-859-11 s PLUG, SHORTING
                                                                                                                                COP1
IC21
IC22
                                                                                                                                COP2
IC24
                                                                                                                                COP3
IC25
                                                                                                                                COP4
                                                                                                                                                  1-563-859-11 s PLUG, SHORTING
                 8-759-926-76 s IC SN74HC54ONS
8-759-925-74 s IC TC74HC04NS
8-759-098-11 s IC TD62783F
8-759-234-67 s IC TMP82C79M-2
8-759-926-77 s IC SN74HC541NS
IC26
                                                                                                                                COR1
                                                                                                                                                  1-566-391-11 o CONNECTOR 12P, MALE
IC27
                                                                                                                                                  8-719-940-99 s LED SLR-34VC3, RED
8-719-940-99 s LED SLR-34VC3, RED
8-719-940-99 s LED SLR-34VC3, RED
IC28
                                                                                                                                D1
IC29
                                                                                                                                D2
IC30
                                                                                                                                D3
                 8-759-926-64 s IC SN74HC367ANS
8-759-926-11 s IC SN74HC138NS
8-759-098-12 s IC TD62083F
8-759-926-76 s IC SN74HC540NS
8-759-098-11 s IC TD62783F
                                                                                                                                                  8-759-554-72 s IC HD647180CP-SIO2V1.0
8-759-973-43 s IC MB8421-90LPFQ
8-759-240-65 s IC TC74HCT139AF
8-759-243-06 s IC TC74AC04F
IC31
                                                                                                                                IC1
IC32
                                                                                                                                IC2
                                                                                                                                IC3
IC33
                                                                                                                                IC4
IC34
                                                                                                                                                  8-759-008-57 s IC MC34051P
IC35
                                                                                                                                IC6
                  8-759-234-67 s IC TMP82C79M-2
8-759-926-77 s IC SN74HC541NS
8-759-926-64 s IC SN74HC367ANS
8-759-926-64 s IC SN74HC367ANS
8-759-926-77 s IC SN74HC541NS
                                                                                                                                X1
                                                                                                                                                  1-567-812-11 s RESONATOR, CERAMIC 12.288MHz
IC37
IC38
IC39
 IC45
                  8-759-926-64 s IC SN74HC367ANS
8-759-926-11 s IC SN74HC138NS
8-759-998-12 s IC TD62083F
8-759-926-76 s IC SN74HC540NS
8-759-098-11 s IC TD62783F
 IC46
IC47
IC48
IC49
 IC50
 IC51
                  8-759-234-67 s IC TMP82C79M-2
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KPC-5 B	OARD	(KPC-5]	BOARD)
Ref. No or Q'ty	Part No. SP Description	Ref. No or Q'ty	Part No. SP Description
1pc 1pc 2pcs 1pc 2pcs	A-8271-807-A O MOUNTED CIRCUIT BOARD, KPC-5 3-166-184-01 O LEVER, PC BOARD 3-166-185-01 S NUT, PLATE 3-179-150-01 O BRACKET, EXTENSION 7-622-207-05 S N 2.6, TYPE 2	IC37 IC41 IC43 IC51 IC52	8-759-243-09 s IC TC74AC74F 8-759-244-71 s IC TC74AC540F 8-759-244-71 s IC TC74AC540F 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q
1pc 6pcs 3pcs 8pcs 8pcs	7-626-320-11 s PIN, SPRING 3X8 7-628-254-40 s SCREW +PS 2.6X12 7-682-903-01 s SCREW +PWH 3X5 7-682-948-01 s SCREW +PSW 3X8 7-685-104-19 s SCREW +P 2X6 TYPE2 SLIT	IC53 IC54 IC55 IC100 IC101	8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q 8-759-505-02 s IC CXD8053Q 8-759-244-75 s IC TC74AC541F
C1 C2	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC102 IC103	8-759-244-75 s IC TC74AC541F 8-759-244-75 s IC TC74AC541F
CN110 CN111 CN210 CN211 CN300	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P	IC104 IC105 IC106 IC107	8-759-244-75 s IC TC74AC541F 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
CN300 CN301 CN302 CN310	1_KUK_KAU	IC108 IC109 IC110 IC111	8-759-320-87 s IC HM63021P-28 8-759-244-06 s IC TC74AC164F 8-759-244-06 s IC TC74AC164F 8-759-505-05 s IC CXD8055
CN311 CNA2 CNB2	1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P 1-750-066-11 o CONNECTOR, BB 50P, FEMALE 1-750-066-11 o CONNECTOR, BB 50P, FEMALE	IC112 IC113 IC114 IC115	8-759-504-99 s IC CXD8065 8-759-704-29 s IC WS57C291B-K2U11-V1.0, EPROM 8-759-704-30 s IC WS57C291B-K2U11-V1.0, EPROM 8-759-704-22 s IC WS57C49B-K2U13-V1.0, EPROM
CND2	1-750-066-11 O CONNECTOR, BB 50P, FEMALE	IC116 IC131	8-759-704-23 s IC WS57C49B-K2L13-V1.0, EPROM 8-759-320-87 s IC HM63021P-28
CNX1	1-565-207-21 s CONNECTOR, DIN 128P, MALE	IC132 IC133	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
CNY1	1-565-207-21 s CONNECTOR, DIN 128P, MALE	IC134 IC135	8-759-986-36 s IC 74ACT257SJ 8-759-504-91 s IC CXD8062Q
CNZ1	1-506-748-11 o CONNECTOR, DIN 96P, MALE	IC136	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
COP1	1-564-950-21 o PIN, SIL 8P 1-562-579-21 s PLUG, SHORTING	IC138 IC139	8-759-244-85 s IC TC7AAC574F 8-759-244-85 s IC TC74AC574F
COR1		IC145	8-759-244-37 s IC TC74AC257F
D1	8-719-800-76 s DIODE 1SS226	IC146 IC147	8-759-243-50 s IC TC74AC08F 8-759-243-50 s IC TC74AC08F
F1 A	1-576-031-11 s FUSE 10A 125V 8-759-505-27 s IC SN75ALS195J 8-759-945-30 s IC SN75ALS194N	IC148 IC201 IC202	8-759-243-50 s IC TC74AC08F 8-759-244-75 s IC TC74AC541F 8-759-244-75 s IC TC74AC541F
IC3 IC4 IC5	8-759-505-00 s IC CXD8052Q 8-759-057-32 s IC CAT35C104K 8-759-234-77 s IC TC4S66F	IC203 IC204 IC205 IC206	8-759-244-75 s IC TC74AC541F 8-759-244-75 s IC TC74AC541F 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC6 IC7 IC8 IC9	8-759-926-11 s IC SN74HC138NS 8-759-244-75 s IC TC74AC541F 8-759-244-71 s IC TC74AC540F 8-759-947-47 s IC SN74LS594N	IC207 IC208 IC209	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-244-06 s IC TC74AC164F
IC10 IC20	8-759-926-42 s IC SN74HC238NS 8-759-926-82 s IC SN74HC574ANS	IC210 IC211 IC212	8-759-244-06 s IC TC74AC164F 8-759-505-05 s IC CXD8055 8-759-504-99 s IC CXD8065
IC21 IC22 IC30 IC31	8-759-243-09 s IC TC74AC74F 8-759-320-87 s IC HM63021P-28 8-759-244-71 s IC TC74AC540F 8-759-244-15 s IC TC74AC240F	IC213 IC214 IC215 IC216	8-759-704-29 s IC WS57C291B-K2U11-V1.0, EPROM 8-759-704-30 s IC WS57C291B-K2L11-V1.0, EPROM 8-759-704-22 s IC WS57C49B-K2U13-V1.0, EPROM 8-759-704-23 s IC WS57C49B-K2L13-V1.0, EPROM
IC32 IC33 IC34 IC35 IC36	8-759-244-71 s IC TC74AC540F 8-759-244-71 s IC TC74AC540F 8-759-244-75 s IC TC74AC541F 8-759-244-15 s IC TC74AC240F 8-759-244-04 s IC TC74AC163F	IC231 IC232 IC233 IC234 IC235	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-986-36 s IC 74ACT257SJ 8-759-504-91 s IC CXD8062Q

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KY-238 BOARD
(KPC-5 BOARD)
                                                                                                                                               Ref. No. or Q'ty Part No.
Ref. No.
or Q'ty Part No.
                                                                                                                                                                                               SP Description
                                               SP Description
                    8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-37 s IC TC74AC257F
                                                                                                                                                                   A-8271-714-A o MOUNTED CIRCUIT BOARD, KY-238 3-708-605-01 o KEY TOP 3-678-086-01 o TIP(4),SW
IC236
                                                                                                                                               1pc
                                                                                                                                               1pc
IC237
IC238
IC239
                                                                                                                                               1pc
                                                                                                                                                                   1-568-064-11 o CONNECTOR, TX 50P, MALE
                                                                                                                                               CN1
IC245
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
                    8-759-243-50 s IC TC74AC08F
8-759-243-50 s IC TC74AC08F
8-759-243-50 s IC TC74AC08F
8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
IC246
IC247
IC248
                                                                                                                                               D3
                                                                                                                                               D5
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
                                                                                                                                               D7
IC300
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
                                                                                                                                               D11
IC301
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
                    8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
8-759-320-87 s IC HMG3021P-28
                                                                                                                                               D13
IC302
                                                                                                                                               D15
D17
IC303
IC304
IC305
                                                                                                                                               D31
                    8-759-320-87 s IC HM63021P-28
                                                                                                                                               D33
IC306
                    8-759-504-99 s IC CXD8065
8-759-704-29 s IC WS57C291B-K2U11-V1.0, EPROM
8-759-704-30 s IC WS57C291B-K2L11-V1.0, EPROM
8-759-704-29 s IC WS57C291B-K2U11-V1.0, EPROM
8-759-704-30 s IC WS57C291B-K2L11-V1.0, EPROM
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
IC307
                                                                                                                                               D37
IC308
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
                                                                                                                                               D41
D43
IC309
 IC310
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
                                                                                                                                               D45
IC311
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
                    8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
                                                                                                                                                D47
 IC312
                                                                                                                                                D61
IC313
                                                                                                                                                D63
 IC314
                                                                                                                                                D65
                    1-216-619-11 s METAL, CHIP 47 0.5% 1/10W 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W
                                                                                                                                                                    8-719-400-18 s DIODE MA152WK
                                                                                                                                               D67
R9
                                                                                                                                                                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
                                                                                                                                                D71
R16
                                                                                                                                               D73
                     1-809-179-11 s THERMISTOR 1k 102AT-2
                                                                                                                                                D75
TH1
                                                                                                                                                D77
                                                                                                                                                                   1-692-416-11 s SWITCH, PUSH
1-692-416-11 s SWITCH, PUSH
1-692-416-11 s SWITCH, PUSH
1-692-416-11 s SWITCH, PUSH
1-692-416-11 s SWITCH, PUSH
                                                                                                                                                $11-17
$31-38
$41-47
                                                                                                                                                S61-68
```

S71-77

1-692-416-11 s SWITCH, PUSH

KY-239(A) BOARD	(KY-239(A) BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc 4pcs 6pcs 2pcs 1pc	A-8271-791-A O MOUNTED CIRCUIT BOARD, KY-239 (A)PENDING O LED, HOLDER 1-568-616-11 O SOCKET, SIL 6P 1-569-090-11 O SOCKET, SIL 12P 3-678-050-01 O SPACER(1)	R1 1-215-863-11 s METAL 100 5% 1W R2 1-215-863-11 s METAL 100 5% 1W R3 1-215-863-11 s METAL 100 5% 1W R4 1-215-863-11 s METAL 100 5% 1W R5 1-215-863-11 s METAL 100 5% 1W
1pc 1pc 1pc 1pc	3-678-086-01 o TIP(4),SW 3-708-593-11 o KEY TOP 3-708-593-21 o KEY TOP 3-708-593-31 o KEY TOP 3-708-595-51 o KEY TOP	R6 1-215-863-11 s METAL 100 5% 1W R7 1-215-863-11 s METAL 100 5% 1W R8 1-215-863-11 s METAL 100 5% 1W S21-23 1-692-416-11 s SWITCH, PUSH
1pc 1pc 1pc 1pc 1pc	3-708-595-61 0 KEY TOP 3-708-599-31 0 KEY TOP 3-708-599-41 0 KEY TOP 3-708-600-61 0 KEY TOP	S25 1-692-416-11 s SWITCH, PUSH S51-53 1-692-416-11 s SWITCH, PUSH S55 1-692-416-11 s SWITCH, PUSH S81-83 1-692-416-11 s SWITCH, PUSH
1pc 1pc 1pc 1pc	3-708-600-71 0 KEY TOP 3-708-600-81 0 KEY TOP 3-708-600-91 0 KEY TOP 3-708-601-01 0 KEY TOP 2-708-601-11 VEY TOP	\$85 1-692-416-11 s SWITCH, PUSH \$91 1-692-427-61 s SWITCH, PUSH \$92 1-692-427-71 s SWITCH, PUSH \$93 1-692-427-81 s SWITCH, PUSH \$94 1-692-427-91 s SWITCH, PUSH
1pc 1pc 1pc 1pc 1pc	3-708-601-11 o KEY TOP 3-708-601-51 o KEY TOP 3-708-605-01 o KEY TOP 3-708-608-11 o KEY TOP 3-708-608-21 o KEY TOP	\$95 1-692-426-31 s SWITCH, PUSH \$96 1-692-426-31 s SWITCH, PUSH \$101 1-692-426-31 s SWITCH, PUSH \$102 1-692-426-21 s SWITCH, PUSH \$103 1-692-428-61 s SWITCH, PUSH
CN1 CN2 CN7 CN8 CN9	1-580-340-11 o CONNECTOR 80P, MALE 1-566-478-11 o PIN, SIL 6P 1-568-616-11 o SOCKET, SIL 6P 1-568-616-11 o SOCKET, SIL 6P 1-569-090-11 o SOCKET, SIL 12P	•
D21 D23 D25 D51 D53	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	\$113 1-692-419-41 s SWITCH, PUSH \$114 1-692-419-51 s SWITCH, PUSH \$115 1-692-414-21 s SWITCH, PUSH \$116 1-692-414-31 s SWITCH, PUSH
D55 D81 D83 D85 D91	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	
D93 D95 D101 D103 D105	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	
D111 D113 D115 D201 D202	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN	
D203 D204 D205 D206 D207	8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN	
D208 D209 D210 D211 D212	8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN 8-719-938-67 s LED GL3EG8, GRN	

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KY-239(B) BOARD
                                                                                                                                             (KY-239(B) BOARD)
Ref. No. or Q'ty Part No.
                                                                                                                                            Ref. No. or Q'ty Part No.
                                               SP Description
                                                                                                                                                                                          SP Description
                    A-8271-716-A O MOUNTED CIRCUIT BOARD, KY-239 (B) --PENDING--- O LED, HOLDER 1-569-090-11 O SOCKET, SIL 12P 1-568-616-11 O SOCKET, SIL 6P 3-678-086-01 O TIP(4),SW
                                                                                                                                                               1-215-863-11 S METAL 100 5% 1W
1-215-863-11 S METAL 100 5% 1W
1-215-863-11 S METAL 100 5% 1W
1-215-863-11 S METAL 100 5% 1W
 1pc
 4pcs
                                                                                                                                            R2
 2pcs
                                                                                                                                            R3
 6pcs
                                                                                                                                                                1-215-863-11 s METAL 100 5% 1W
 1pc
                    3-708-593-11 O KEY TOP
3-708-593-21 O KEY TOP
3-708-593-31 O KEY TOP
3-708-595-51 O KEY TOP
                                                                                                                                                               1-215-863-11 s METAL 100 5% 1W
1-215-863-11 s METAL 100 5% 1W
1-215-863-11 s METAL 100 5% 1W
                                                                                                                                            R6
 1pc
 1pc
                                                                                                                                            R7
 1pc
                                                                                                                                            R8
                                                                                                                                                              1-692-416-11 s SWITCH, PUSH
1-692-416-11 s SWITCH, PUSH
                    3-708-595-61 O KEY TOP
 1pc
                                                                                                                                            S21-24
                                                                                                                                            S51-54
                    3-708-599-31 0 KEY TOP
3-708-599-41 0 KEY TOP
3-708-600-61 0 KEY TOP
3-708-600-71 0 KEY TOP
3-708-600-81 0 KEY TOP
1pc
1pc
                                                                                                                                                              1-692-416-11 s SWITCH, PUSH
1-692-427-61 s SWITCH, PUSH
                                                                                                                                            S81-84
                                                                                                                                            S91
                                                                                                                                                               1-692-427-71 s SWITCH, PUSH
1pc
                                                                                                                                            S92
1pc
                                                                                                                                                              1-692-427-81 s SWITCH, PUSH
1-692-427-91 s SWITCH, PUSH
                                                                                                                                            S93
1pc
                                                                                                                                            S94
                    3-708-600-91 0 KEY TOP
3-708-601-01 0 KEY TOP
3-708-601-11 0 KEY TOP
3-708-601-51 0 KEY TOP
3-708-605-01 0 KEY TOP
                                                                                                                                                              1-692-426-31 s SWITCH, PUSH
1-692-426-31 s SWITCH, PUSH
1-692-426-31 s SWITCH, PUSH
1pc
                                                                                                                                            S95
                                                                                                                                            S96
1pc
                                                                                                                                            S101
1pc
1pc
                                                                                                                                            S102-103 1-692-426-21 s SWITCH, PUSH
1pc
                                                                                                                                                              1-692-428-11 s SWITCH, PUSH
1-692-428-21 s SWITCH, PUSH
1-692-419-31 s SWITCH, PUSH
                                                                                                                                            S104
                    3-708-608-11 0 KEY TOP
3-708-608-21 0 KEY TOP
3-678-050-01 0 SPACER(1)
                                                                                                                                            S105
1pc
                                                                                                                                            S106
1pc
                                                                                                                                                              1-692-421-91 s SWITCH, PUSH
                                                                                                                                           S111
1pc
                   1-580-340-11 0 CONNECTOR 80P, MALE
1-566-478-11 0 PIN, SIL 6P
1-568-616-11 0 SOCKET, SIL 6P
1-568-616-11 0 SOCKET, SIL 6P
1-569-090-11 0 SOCKET, SIL 12P
                                                                                                                                                              1-692-422-11 s SWITCH, PUSH
1-692-419-41 s SWITCH, PUSH
1-692-419-51 s SWITCH, PUSH
CN1
                                                                                                                                            S112
CN2
                                                                                                                                            S113
CN7
                                                                                                                                            S114
                                                                                                                                                              1-692-414-21 s SWITCH, PUSH
1-692-414-31 s SWITCH, PUSH
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D21
D23
D25
D51
                    8-719-400-18 s DIODE MA152WK
D53
                   8-719-400-18 S DIODE MA152WK
8-719-400-18 S DIODE MA152WK
8-719-400-18 S DIODE MA152WK
8-719-400-18 S DIODE MA152WK
D55
D81
D83
D85
                    8-719-400-18 s DIODE MA152WK
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D93
D95
D101
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D103
D105
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
D111
D113
D115
D201
D202
                   8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
D203
D204
D205
D206
D207
                    8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
D208
D209
                    8-719-938-67 s LED GL3EG8, GRN
8-719-938-67 s LED GL3EG8, GRN
D210
D211
D212
                    8-719-938-67 s LED GL3EG8, GRN
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KY-240 BOARD	(KY-240 BOARD)
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
1pc A-8271-792-A o MOUNTED CIRCUIT BOARD, KY-240 1pc 3-708-592-11 o KEY TOP 1pc 3-708-592-21 o KEY TOP 1pc 3-708-592-31 o KEY TOP 1pc 3-708-592-41 o KEY TOP	D111 8-719-400-18 s DIODE MA152WK D113 8-719-400-18 s DIODE MA152WK D115 8-719-400-18 s DIODE MA152WK D117 8-719-400-18 s DIODE MA152WK D121 8-719-400-18 s DIODE MA152WK
1pc 3-708-592-51 o KEY TOP 1pc 3-708-592-61 o KEY TOP 1pc 3-708-592-71 o KEY TOP 1pc 3-708-592-81 o KEY TOP 1pc 3-708-592-91 o KEY TOP	D123 8-719-400-18 S DIODE MA152WK D125 8-719-400-18 S DIODE MA152WK D127 8-719-400-18 S DIODE MA152WK D131 8-719-400-18 S DIODE MA152WK D133 8-719-400-18 S DIODE MA152WK
1pc 3-708-593-91 0 KEY TOP 1pc 3-708-597-52 0 KEY TOP 1pc 3-708-599-21 0 KEY TOP 1pc 3-708-599-41 0 KEY TOP 1pc 3-708-599-61 0 KEY TOP	D135 8-719-400-18 s DIODE MA152WK D137 8-719-400-18 s DIODE MA152WK IC1 8-759-926-49 s IC SN74HC245NS IC2 8-759-926-77 s IC SN74HC541NS
1pc 3-708-599-71 0 KEY TOP 1pc 3-708-599-81 0 KEY TOP 1pc 3-708-599-91 0 KEY TOP	IC3 8-759-926-77 s IC SN74HC541NS IC4 8-759-923-64 s IC AM26LS32ACNS IC5 8-759-925-85 s IC SN74HC32NS
1pc 3-708-600-01 0 KEY TOP 1pc 3-708-600-11 0 KEY TOP 1pc 3-708-600-21 0 KEY TOP 1pc 3-708-600-31 0 KEY TOP	IC6 8-759-926-11 s IC SN74HC138NS IC7 8-759-926-11 s IC SN74HC138NS IC8 8-759-926-29 s IC SN74HC175NS IC9 8-759-098-11 s IC TD62783F IC10 8-759-098-12 s IC TD62083F
1pc 3-708-600-41 0 KEY TOP 1pc 3-708-600-51 0 KEY TOP 1pc 3-708-605-01 0 KEY TOP	IC12 8-759-234-67 s IC TMP82C79M-2 IC13 8-759-926-11 s IC SN74HC138NS IC14 8-759-926-76 s IC SN74HC540NS
1pc 3-678-083-01 o TIP(3),SW C100 1-126-396-11 s ELECT, CHIP 47uF 20% 16V	IC15 8-759-925-74 s IC TC74HC04NS IC16 8-759-926-45 s IC SN74HC241ANS
C101 1-126-396-11 S ELECT, CHIP 47uF 20% 16V CN3 1-564-243-00 O CONNECTOR, VH 6P, MALE CN4 1-568-064-11 O CONNECTOR, TX 50P, MALE CN5 1-506-473-11 O CONNECTOR 8P, MALE CN6 1-506-471-11 O CONNECTOR 6P, MALE	IC17 8-759-098-12 s IC TD62083F IC18 8-759-234-67 s IC TMP82C79M-2 IC19 8-759-926-11 s IC SN74HC138NS IC20 8-759-098-12 s IC TD62083F IC21 8-759-926-76 s IC SN74HC540NS
D1 9-710-400-19 c DTODE WA159UF	1022 8-759-098-11 S 10 1D62783F
D3 8-719-400-18 s DIODE MA152WK D5 8-719-400-18 s DIODE MA152WK D7 8-719-400-18 s DIODE MA152WK D11 8-719-400-18 s DIODE MA152WK	RB1-3 1-231-410-00 s RESISTOR BLOCK 10Kx8 RB4 1-231-533-00 s RESISTOR BLOCK 10Kx4 RB5-7 1-231-410-00 s RESISTOR BLOCK 10Kx8
D13 8-719-400-18 s DIODE MA152WK D15 8-719-400-18 s DIODE MA152WK D17 8-719-400-18 s DIODE MA152WK D21 8-719-400-18 s DIODE MA152WK D23 8-719-400-18 s DIODE MA152WK	\$1-8
D25 8-719-400-18 s DIODE MA152WK D27 8-719-400-18 s DIODE MA152WK D31 8-719-400-18 s DIODE MA152WK D33 8-719-400-18 s DIODE MA152WK D35 8-719-400-18 s DIODE MA152WK	S42 1-692-426-61 s SWITCH, PUSH S43 1-692-426-71 s SWITCH, PUSH S44 1-692-426-81 s SWITCH, PUSH S45 1-692-426-91 s SWITCH, PUSH S46 1-692-427-11 s SWITCH, PUSH
D41 8-719-400-18 s DIODE MA152WK D43 8-719-400-18 s DIODE MA152WK D45 8-719-400-18 s DIODE MA152WK D47 8-719-400-18 s DIODE MA152WK D51 8-719-400-18 s DIODE MA152WK	S47 1-692-427-21 s SWITCH, PUSH S48 1-692-427-31 s SWITCH, PUSH S51 1-692-427-41 s SWITCH, PUSH S52 1-692-427-51 s SWITCH, PUSH S53 1-692-426-31 s SWITCH, PUSH
D53 8-719-400-18 s DIODE MA152WK D101 8-719-400-18 s DIODE MA152WK D103 8-719-400-18 s DIODE MA152WK D105 8-719-400-18 s DIODE MA152WK D107 8-719-400-18 s DIODE MA152WK	\$101 1-692-418-21 s SWITCH, PUSH \$102 1-692-418-31 s SWITCH, PUSH \$103 1-692-418-41 s SWITCH, PUSH \$104 1-692-418-51 s SWITCH, PUSH \$105 1-692-418-61 s SWITCH, PUSH
	S106 1-692-418-71 s SWITCH, PUSH

(KY-240 BOARD)

Ref. No. or Q'ty	Part	No.	SP	Descrip	tion
\$107 \$108 \$111 \$112 \$113	1-69 1-69 1-69	2-418-81 2-418-91 2-419-11 2-426-11 2-418-21	S	SWITCH, SWITCH, SWITCH, SWITCH, SWITCH,	PUSH PUSH PUSH PUSH PUSH
S114 S115 S116 S117 S118	1-69 1-69 1-69	2-418-31 2-418-41 2-418-51 2-418-61 2-418-71	S	SWITCH, SWITCH, SWITCH, SWITCH, SWITCH,	PUSH PUSH PUSH PUSH PUSH
S121 S122 S123 S124 S125	1-69 1-69 1-69	2-418-81 2-418-91 2-419-11 2-426-11 2-418-21	l s l s	SWITCH, SWITCH, SWITCH, SWITCH,	PUSH PUSH PUSH PUSH PUSH PUSH
S126 S127 S128 S131 S132	1-69 1-69 1-69	2-418-3 2-418-4 2-418-5 2-418-6 2-418-7	l s l s l s	SWITCH, SWITCH, SWITCH, SWITCH,	PUSH PUSH PUSH PUSH PUSH
\$133 \$134 \$135 \$136 \$137	1-69 1-69 1-69	2-418-8 2-418-9 2-419-1 2-426-1 2-420-2	l s l s	SWITCH, SWITCH, SWITCH, SWITCH,	PUSH PUSH PUSH PUSH PUSH
S138	1-69	2-424-2	2 s	SWITCH,	PUSH

KY-241 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc 1pc	A-8271-799-A O MOUNTED CIRCUIT BOARD, KY-241 3-708-590-11 O KEY TOP 3-708-590-21 O KEY TOP 3-708-590-31 O KEY TOP 3-708-590-41 O KEY TOP
1pc	3-708-590-51 o KEY TOP
CN1	1-506-471-11 o CONNECTOR 6P, MALE
D3	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK
S1 S2 S3 S4 S5	1-692-417-21 s SWITCH, PUSH 1-692-417-31 s SWITCH, PUSH 1-692-417-41 s SWITCH, PUSH 1-692-417-51 s SWITCH, PUSH 1-692-417-61 s SWITCH, PUSH

KY-242 BOARD		KY-243 BOARD		
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description	
1pc 1pc 1pc 1pc 1pc	A-8271-800-A O MOUNTED CIRCUIT BOARD, KY-242 3-708-590-61 O KEY TOP 3-708-590-71 O KEY TOP 3-708-590-81 O KEY TOP 3-708-590-91 O KEY TOP	1pc 1pc 1pc 1pc 1pc	A-8271-793-A O MOUNTED CIRCUIT BOARD, KY-243 3-708-593-11 O KEY TOP 3-708-593-31 O KEY TOP 3-708-593-41 O KEY TOP 3-708-593-51 O KEY TOP	
1pc 1pc 1pc 1pc 1pc	3-708-591-01 0 KEY TOP 3-708-591-11 0 KEY TOP 3-708-591-21 0 KEY TOP 3-708-591-31 0 KEY TOP 3-708-591-41 0 KEY TOP	1pc 1pc 1pc 1pc 1pc	3-708-593-61 O KEY TOP 3-708-593-71 O KEY TOP 3-708-593-81 O KEY TOP 3-708-593-91 O KEY TOP 3-708-594-01 O KEY TOP	
1pc 1pc 1pc	3-708-591-61 0 KEY TOP 3-708-591-71 0 KEY TOP	1pc 1pc 1pc 1pc	3-708-594-11 O KEY TOP 3-708-594-21 O KEY TOP 3-708-595-21 O KEY TOP 3-708-595-31 O KEY TOP	
CN1	1-506-473-11 o CONNECTOR 8P, MALE	1pc	3-708-595-41 o KEY TOP	
D1 D3 D5 D11 D13	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	1pc 1pc 1pc 1pc 1pc	3-708-595-51 O KEY TOP 3-708-595-61 O KEY TOP 3-708-595-71 O KEY TOP 3-708-595-81 O KEY TOP 3-708-597-11 O KEY TOP	
D15	8-719-400-18 s DIODE MA152WK	1pc 1pc	3-708-597-21 o KEY TOP 3-708-597-31 o KEY TOP	
S1 S2 S3 S4	1-692-429-81 s SWITCH, PUSH 1-692-417-71 s SWITCH, PUSH 1-692-417-81 s SWITCH, PUSH 1-692-417-91 s SWITCH, PUSH	ipc ipc ipc	3-708-597-41 O KEY TOP 3-708-597-61 O KEY TOP 3-708-597-71 O KEY TOP	
S5 S6 S11 S12	1-692-429-11 s SWITCH, PUSH 1-692-429-21 s SWITCH, PUSH 1-692-429-31 s SWITCH, PUSH 1-692-429-41 s SWITCH, PUSH	1pc 1pc 2pcs 1pc 2pcs	3-708-597-81 0 KEY TOP 3-708-597-91 0 KEY TOP 3-708-599-31 0 KEY TOP 3-708-599-51 0 KEY TOP 3-708-601-21 0 KEY TOP	
S13 S14 S15 S16	1-692-429-51 s SWITCH, PUSH 1-692-429-61 s SWITCH, PUSH 1-692-429-71 s SWITCH, PUSH 1-692-429-91 s SWITCH, PUSH	2pcs 1pc 1pc 1pc 1pc	3-708-601-31 O KEY TOP 3-708-601-41 O KEY TOP 3-708-602-11 O KEY TOP 3-708-602-21 O KEY TOP 3-708-602-31 O KEY TOP	
		1pc 1pc 1pc 1pc 1pc	3-708-602-41 o KEY TOP 3-708-602-52 o KEY TOP 3-708-602-61 o KEY TOP 3-708-602-71 o KEY TOP 3-708-603-11 o KEY TOP	
		1pc 1pc 1pc 1pc 1pc	3-708-603-21 O KEY TOP 3-708-603-31 O KEY TOP 3-708-603-41 O KEY TOP 3-708-603-51 O KEY TOP 3-708-603-61 O KEY TOP	
		1pc 1pc 1pc 1pc 1pc	3-708-603-71 O KEY TOP 3-708-603-81 O KEY TOP 3-708-603-91 O KEY TOP 3-708-604-01 O KEY TOP 3-708-604-11 O KEY TOP	
		1pc 1pc 1pc 1pc 4pcs	3-708-605-01 o KEY TOP 3-708-607-11 o KEY TOP 3-708-608-11 o KEY TOP 3-708-608-21 o KEY TOP 1-568-616-11 o SOCKET, SIL 6P	
		4pcs	1-565-430-11 s SOCKET, SIL 10P	
		CN1 CN2	1-580-340-11 O CONNECTOR 80P, MALE 1-580-340-11 O CONNECTOR 80P, MALE	

(KY-243	BOARD)	(KY-243	BOARD)
Ref. No. or Q'ty	Part No. SP Description	•	Part No. SP Description
CN3 CN4 CN5 CN6	1-568-616-11 0 SOCKET, SIL 6P 1-568-616-11 0 SOCKET, SIL 6P 1-565-430-11 s SOCKET, SIL 10P 1-565-430-11 s SOCKET, SIL 10P	S16 S17 S18 S21 S22	1-692-424-31 s SWITCH, PUSH 1-692-424-41 s SWITCH, PUSH 1-692-422-21 s SWITCH, PUSH 1-692-424-51 s SWITCH, PUSH 1-692-424-61 s SWITCH, PUSH
D1 D3 D5 D7 D11	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S23 S24 S25 S26 S27	1-692-422-31 s SWITCH, PUSH 1-692-419-81 s SWITCH, PUSH 1-692-419-91 s SWITCH, PUSH 1-692-420-11 s SWITCH, PUSH 1-692-420-21 s SWITCH, PUSH
D13 D15 D17 D21 D23	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S28 S31 S32 S33	1-692-420-31 s SWITCH, PUSH 1-692-418-11 s SWITCH, PUSH 1-692-418-11 s SWITCH, PUSH 1-692-418-11 s SWITCH, PUSH
D25 D27 D31 D33 D35	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S35 S36 S41-48 S51-52 S53	1-692-418-11 S SWITCH, PUSH 1-692-420-41 S SWITCH, PUSH 1-692-416-11 S SWITCH, PUSH 1-692-416-11 S SWITCH, PUSH 1-692-414-21 S SWITCH, PUSH 1-692-414-31 S SWITCH, PUSH
D41 D43 D45 D47 D51	8-719-400-18 S DIODE MAISZWK 8-719-400-18 S DIODE MAISZWK 8-719-400-18 S DIODE MAISZWK	S102 S103	1-692-414-31 s SWITCH, PUSH 1-692-428-31 s SWITCH, PUSH 1-692-428-41 s SWITCH, PUSH 1-692-426-21 s SWITCH, PUSH 1-692-419-31 s SWITCH, PUSH
D53 D101 D103 D105 D107	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S105 S106 S107 S201 S202	1-692-419-71 s SWITCH, PUSH 1-692-426-41 s SWITCH, PUSH 1-692-428-51 s SWITCH, PUSH 1-692-421-61 s SWITCH, PUSH 1-692-423-71 s SWITCH, PUSH
D201 D203 D205 D207 D211	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S203 S204 S205 S206 S207	1-692-421-71 s SWITCH, PUSH 1-692-422-41 s SWITCH, PUSH 1-692-423-81 s SWITCH, PUSH 1-692-422-51 s SWITCH, PUSH 1-692-423-91 s SWITCH, PUSH
D301 D303 D305 D307 D311	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S208 S211 S212 S301 S302	1-692-419-71 s SWITCH, PUSH 1-692-424-11 s SWITCH, PUSH 1-692-421-81 s SWITCH, PUSH 1-692-411-21 s SWITCH, PUSH 1-692-411-41 s SWITCH, PUSH
D313 D315 D317 D321 D323	8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK 8-719-400-18 s DIODE MA152WK	S303 S304 S305 S306 S307	1-692-411-31 s SWITCH, PUSH 1-692-411-51 s SWITCH, PUSH 1-692-411-61 s SWITCH, PUSH 1-692-411-71 s SWITCH, PUSH 1-692-411-81 s SWITCH, PUSH
D325	8-719-400-18 s DIODE MA152WK	S311 S312	1-692-412-21 s SWITCH, PUSH
S1 S2 S3 S4 S5	1-692-421-91 s SWITCH, PUSH 1-692-422-11 s SWITCH, PUSH 1-692-419-51 s SWITCH, PUSH 1-692-419-61 s SWITCH, PUSH 1-692-418-11 s SWITCH, PUSH	S313 S314 S315	1-692-412-31 s SWITCH, PUSH 1-692-412-41 s SWITCH, PUSH 1-692-412-51 s SWITCH, PUSH 1-692-412-61 s SWITCH, PUSH
S6 S7 S8 S11 S12	1-692-418-11 s SWITCH, PUSH 1-692-421-91 s SWITCH, PUSH 1-692-422-11 s SWITCH, PUSH 1-692-419-51 s SWITCH, PUSH 1-692-419-61 s SWITCH, PUSH	S316 S317 S321 S322 S323	1-692-412-71 s SWITCH, PUSH 1-692-412-81 s SWITCH, PUSH 1-692-412-91 s SWITCH, PUSH 1-692-413-11 s SWITCH, PUSH 1-692-413-21 s SWITCH, PUSH
S13 S14 S15	1-692-418-11 s SWITCH, PUSH 1-692-418-11 s SWITCH, PUSH 1-692-419-71 s SWITCH, PUSH	S324 S325	1-692-413-31 s SWITCH, PUSH 1-692-415-21 s SWITCH, PUSH

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KY-244 BOARD
 Ref. No.
 or Q'ty Part No. SP Description
                    3-708-593-91 O KEY TOP
3-708-594-51 O KEY TOP
 1pc
1pc
1pc
                    3-708-594-61 o KEY TOP
3-708-594-71 o KEY TOP
 1pc
                     3-708-594-81 o KEY TOP
                    3-708-594-91 0 KEY TOP
3-708-595-01 0 KEY TOP
3-708-595-11 0 KEY TOP
3-708-596-31 0 KEY TOP
 1pc
1pc
1pc
1pc
                    3-708-596-41 o KEY TOP
 1pc
                   3-708-596-51 O KEY TOP
3-708-596-61 O KEY TOP
3-708-596-71 O KEY TOP
3-708-596-81 O KEY TOP
3-708-596-91 O KEY TOP
1pc
1pc
1pc
ipc
ipc
                   3-708-597-02 O KEY TOP
3-708-598-51 O KEY TOP
3-708-598-81 O KEY TOP
3-708-599-01 O KEY TOP
1pc
1pc
1pc
1pc
                    3-708-599-31 O KEY TOP
1pc
                   3-708-599-41 o KEY TOP
1-569-090-11 o SOCKET, SIL 12P
3-678-085-01 o SPACER(2), PCB
1pc
2pcs
2pcs
                   1\!-\!565\!-\!689\!-\!11 o CONNECTOR, TX 60P, MALE 1\!-\!569\!-\!090\!-\!11 o SOCKET, SIL 12P
CN2
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D1
D3
D5
Ď7
                   8-719-400-18 s DIODE MA152WK
D11
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D13
D15
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D17
D21
D23
                    8-719-400-18 s DIODE MA152WK
                    8-719-400-18 s DIODE MA152WK
D27
D38
                    8-719-400-18 s DIODE MA152WK
                   1-692-422-81 s SWITCH, PUSH
1-692-420-91 s SWITCH, PUSH
1-692-421-11 s SWITCH, PUSH
1-692-425-61 s SWITCH, PUSH
S1
S3
S4
S5
                   1-692-421-21 s SWITCH, PUSH
S6
                   1-692-422-91 s SWITCH, PUSH
                   1-692-442-91 S SWITCH, PUSH
1-692-423-11 S SWITCH, PUSH
1-692-423-21 S SWITCH, PUSH
1-692-423-21 S SWITCH, PUSH
1-692-425-31 S SWITCH, PUSH
S8
S11
S12
S13
                   1-692-423-31 s SWITCH, PUSH
1-692-423-41 s SWITCH, PUSH
1-692-421-31 s SWITCH, PUSH
1-692-418-11 s SWITCH, PUSH
1-692-419-21 s SWITCH, PUSH
S14
S15
S16
S17
S18
                   1-692-421-41 s SWITCH, PUSH
1-692-423-51 s SWITCH, PUSH
1-692-420-81 s SWITCH, PUSH
1-692-425-81 s SWITCH, PUSH
S23
S24
S25
S26
                    1-692-418-11 s SWITCH, PUSH
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(KY-244 BOARD)

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KY-245 BOARD
                                                                                                                                   (KY-245 BOARD)
Ref. No. or Q'ty Part No.
                                                                                                                                   Ref. No. or Q'ty Part No.
                                            SP Description
                                                                                                                                                                             SP Description
                  A-8271-794-A o MOUNTED CIRCUIT BOARD, KY-245
3-708-594-31 o KEY TOP
3-708-594-41 o KEY TOP
3-708-594-51 o KEY TOP
3-708-596-11 o KEY TOP
                                                                                                                                                     1-692-422-71 s SWITCH, PUSH
1-692-420-61 s SWITCH, PUSH
1-692-420-71 s SWITCH, PUSH
1-692-425-91 s SWITCH, PUSH
1-692-420-81 s SWITCH, PUSH
1pc
                                                                                                                                   S18
 1pc
                                                                                                                                   S21
 1pc
                                                                                                                                   S22
 1pc
                                                                                                                                   S23
                  3-708-596-21 O KEY TOP
3-708-597-61 O KEY TOP
3-708-597-71 O KEY TOP
3-708-598-01 O KEY TOP
3-708-598-11 O KEY TOP
                                                                                                                                                    1-692-422-41 s SWITCH, PUSH
1-692-422-51 s SWITCH, PUSH
1-692-424-31 s SWITCH, PUSH
1-692-424-41 s SWITCH, PUSH
1-692-413-61 s SWITCH, PUSH
1pc
                                                                                                                                   S24
                                                                                                                                   S25
S26
 1pc
1pc
 1pc
                                                                                                                                   S27
1pc
                                                                                                                                   S31
                  3-708-598-21 O KEY TOP
3-708-598-31 O KEY TOP
3-708-598-41 O KEY TOP
3-708-598-51 O KEY TOP
                                                                                                                                                    1-692-413-71 s SWITCH, PUSH
1-692-413-51 s SWITCH, PUSH
1-692-413-41 s SWITCH, PUSH
 1pc
1pc
                                                                                                                                   S33
1pc
                                                                                                                                   S34
                                                                                                                                                     1-553-812-00 s SWITCH, PUSH
1pc
                   3-708-598-61 o KEY TOP
1pc
1pc
                   3-708-598-71 o KEY TOP
                   3-708-599-11 O KEY TOP
3-708-601-21 O KEY TOP
3-708-601-31 O KEY TOP
1pc
1pc
1pc
                   3-708-604-21 O KEY TOP
                                                                                                                                  KY-246 BOARD
1pc
                                                                                                                                  Ref. No. or Q'ty Part No.
                  3-708-604-31 o KEY TOP
3-708-604-41 o KEY TOP
1pc
1pc
                                                                                                                                                                             SP Description
1pc
                   3-708-604-51 o KEY TOP
                                                                                                                                                    A-8271-795-A o MOUNTED CIRCUIT BOARD, KY-246 7-685-646-79 s SCREW +BVTP 3X8 TYPE2 N-S
                  1-124-589-11 s ELECT 47uF 20% 16V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
1-164-232-11 s CERAMIC 0.01uF 10% 100V
                                                                                                                                   4pcs
Č7
                                                                                                                                                    1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-162-638-11 s CERAMIC, CHIP 1uF 16V
Č8
                                                                                                                                  C1
C2
                  1-565-689-11 o CONNECTOR, TX 60P, MALE
1-506-469-11 s CONNECTOR 4P, MALE
1-506-469-11 s CONNECTOR 4P, MALE
1-506-469-11 s CONNECTOR 4P, MALE
1-506-469-11 s CONNECTOR 4P, MALE
CN2
                                                                                                                                                    1-506-469-11 s CONNECTOR 4P, MALE
CN3
                                                                                                                                  CN1
CN4
                                                                                                                                                    1-238-724-11 s RES, VAR (STICK) CARBON 10k x 2
CN<sub>5</sub>
                                                                                                                                  RV1
                   1-506-469-11 s CONNECTOR 4P, MALE
CN<sub>6</sub>
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D3
D5
                  8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D7
D11
                                                                                                                                  LE-76 BOARD
                   8-719-400-18 s DIODE MA152WK
D13
                                                                                                                                  Ref. No. or Q'ty Part No.
                  8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D15
                                                                                                                                                                             SP Description
D17
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D21
                                                                                                                                                     1-631-489-11 o PRINTED CIRCUIT BOARD, LE-76
                                                                                                                                  1pc
D23
D25
                   8-719-400-18 s DIODE MA152WK
                                                                                                                                  CN1
                                                                                                                                                    1-506-468-11 o CONNECTOR 3P, MALE
                                                                                                                                                    8-719-920-05 s DIODE SLP281C-50
8-719-920-05 s DIODE SLP281C-50
8-719-920-05 s DIODE SLP281C-50
                   8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
8-719-400-18 s DIODE MA152WK
D27
                                                                                                                                  D1
D31
                                                                                                                                  D2
D33
                                                                                                                                  D3
                                                                                                                                  D4
                                                                                                                                                     8-719-920-05 s DIODE SLP281C-50
                   1-692-422-61 s SWITCH, PUSH
                  1-692-422-61 s SWITCH, PUSH
1-692-422-61 s SWITCH, PUSH
1-692-422-61 s SWITCH, PUSH
1-692-424-71 s SWITCH, PUSH
                                                                                                                                                 ↑1-249-408-11 s CARBON 180 5% 1/4W

↑1-249-408-11 s CARBON 180 5% 1/4W

↑1-249-408-11 s CARBON 180 5% 1/4W

↑1-249-408-11 s CARBON 180 5% 1/4W
 Š4
                                                                                                                                  R1
S5
S6
                                                                                                                                   R2
                                                                                                                                   R3
 S7
                  1-692-424-81 s SWITCH, PUSH
1-692-424-91 s SWITCH, PUSH
1-692-425-11 s SWITCH, PUSH
1-692-425-21 s SWITCH, PUSH
1-692-425-31 s SWITCH, PUSH
 S11
S12
S13
 S14
                   1-692-425-41 s SWITCH, PUSH
1-692-425-51 s SWITCH, PUSH
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LE-111 BOARD LE-115 BOARD Ref. No. or Q'ty Part No. Ref. No. or Q'ty Part No. SP Description SP Description 1-646-592-11 o PRINTED CIRCUIT BOARD, LE-111 1pc CN1 1-566-484-11 o PIN, SIL 12P 1-566-478-11 o PIN, SIL 6P 1-566-478-11 o PIN, SIL 6P CN1 8-719-030-51 s LED LD-010MW, GRN 8-719-030-51 s LED LD-010MW, GRN 8-719-030-51 s LED LD-010MW, GRN D1 CN2 D2 D3 8-719-939-53 s LED LB-203ML, GRN D1

LE-112 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc 1pc	1-646-593-11 o PRINTED CIRCUIT BOARD, LE-112 3-678-050-01 o SPACER(1)
CN1	1-566-484-11 o PIN, SIL 12P
D1 D2 D3	8-719-030-51 s LED LD-010MW, GRN 8-719-030-51 s LED LD-010MW, GRN 8-719-030-51 s LED LD-010MW, GRN

LE-113 BOARD

FE-113 R	LE-II3 BUAKU		
Ref. No. or Q'ty	Part No. SP Description		
1pc 1pc	1-646-594-11 o PRINTED CIRCUIT BOARD, LE-113 3-678-054-01 o SPACER(2)		
CN1 CN2	1-566-482-11 o PIN, SIL 10P 1-566-482-11 o PIN, SIL 10P		
IC1 IC2 IC3	8-759-503-93 s IC HDLG-2416 8-759-503-93 s IC HDLG-2416 8-759-503-93 s IC HDLG-2416		

LE-114 BOARD

Ref. No. or Q'ty	Part No. SP Description
1pc	1-646-595-11 o PRINTED CIRCUIT BOARD, LE-114
CN1 CN2	1-566-478-11 o PIN, SIL 6P 1-566-478-11 o PIN, SIL 6P
D1	8-719-939-53 s LED LB-203ML, GRN

LE-118 B	OARD	(LE-118	BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc 2pcs 4pcs 2pcs 4pcs	A-8271-813-A O MOUNTED CIRCUIT BOARD, LE-118 3-166-184-01 O LEVER, PC BOARD 7-622-207-05 S N 2.6, TYPE 2 7-626-320-11 S PIN, SPRING 3X8 7-628-254-40 S SCREW +PS 2.6X12	R119 R120 R121 R122 R123	1-249-417-11 s CARBON 1K 5% 1/4W 1-249-425-11 s CARBON 4.7K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W 1-249-409-11 s CARBON 220 5% 1/4W
C1 C2 C3 C4 C5	1-124-584-00 s ELECT 100uF 20% 10V 1-161-485-00 s CERAMIC 0.1uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V	R124 R125 R126 R127 R128	1-247-804-11 s CARBON 75 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W
C6 C7 C100 C101 C102	1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V	R129 R130 R131 R132 R133	1-249-397-11 s CARBON 22 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W
C103 C104 C105 C106 C107		R134 R135 R136 R137 R138	1-249-397-11 s CARBON 22 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W
C108	1-124-584-00 s ELECT 100uF 20% 10V	R139 R140	1-249-441-11 s CARBON 100K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W
CN5 CN6 CN7	1-124-584-00 s ELECT 100uF 20% 10V 1-566-513-11 s CONNECTOR, FPC 13P 1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE 1-569-170-11 o CONNECTOR, COAXIAL, MALE	R141 R142 R143	1-249-441-11 s CARBON 100K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W
•	1-506-748-11 o CONNECTOR, DIN 96P, MALE	R144	1-249-441-11 s CARBON 100K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W
CNY2	1-506-748-11 o CONNECTOR, DIN 96P, MALE	R146	1-249-441-11 S CARBON 100K 5% 1/4W
D3	8-719-421-11 s DIODE LN15BP	S1	1-571-146-11 s SWITCH, ROTARY
IC100 IC101 IC102	8-759-948-40 s IC DS1000M-50 8-759-244-84 s IC TC74AC574P 8-759-244-84 s IC TC74AC574P		
L100	1-408-417-00 s INDUCTOR 47uH		•
Q100 Q101	8-729-119-78 s TRANSISTOR 2SC2785-HFE 8-729-119-76 s TRANSISTOR 2SA1115P		
R1 R2 R100 R101 R102	1-249-417-11 s CARBON 1K 5% 1/4W 1-249-411-11 s CARBON 330 5% 1/4W 1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W		
R103 R104 R105 R106 R107	1-215-428-00 S METAL 2K 1% 1/6W 1-215-428-00 S METAL 2K 1% 1/6W		
R108 R109 R110 R111 R112	1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W 1-249-417-11 s CARBON 1K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W		
R113 R114 R115 R116 R117	1-249-417-11 s CARBON 1K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W		
R118	1-249-417-11 s CARBON 1K 5% 1/4W		

LE-118(A) BOARD		(LE-118(A) BOARD)		
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description		
1pc 2pcs 4pcs 4pcs 2pcs	A-8271-891-A O MOUNTED CIRCUIT BOARD, LE-118 (A) 3-166-184-01 O LEVER, PC BOARD 7-621-259-75 S SCREW +P 2.6X12 7-622-207-05 S N 2.6, TYPE 2 7-626-320-11 S PIN, SPRING 3X8	R107 1-215-428-00 s METAL 2K 1% 1/6W R108 1-215-428-00 s METAL 2K 1% 1/6W R109 1-215-428-00 s METAL 2K 1% 1/6W R110 1-249-417-11 s CARBON 1K 5% 1/4W R111 1-249-417-11 s CARBON 1K 5% 1/4W		
C1 C2 C3 C4 C5	1-124-584-00 s ELECT 100uF 20% 10V 1-161-485-00 s CERAMIC 0.1uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V	R112 1-249-417-11 s CARBON 1K 5% 1/4W R113 1-249-417-11 s CARBON 1K 5% 1/4W R114 1-249-417-11 s CARBON 1K 5% 1/4W R115 1-249-417-11 s CARBON 1K 5% 1/4W R116 1-249-417-11 s CARBON 1K 5% 1/4W		
C6 C7 C8 C9 C10	1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-162-282-31 s CERAMIC 100PF 10% 50V 1-162-282-31 s CERAMIC 100PF 10% 50V	R117 1-249-417-11 s CARBON 1K 5% 1/4W R118 1-249-417-11 s CARBON 1K 5% 1/4W R119 1-249-417-11 s CARBON 1K 5% 1/4W R120 1-249-425-11 s CARBON 1K 5% 1/4W R121 1-249-417-11 s CARBON 1K 5% 1/4W		
C100 C101 C102 C103 C104	1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-124-584-00 s ELECT 100uF 20% 10V	R122 1-249-417-11 S CARBON 1K 5% 1/4W R123 1-249-409-11 S CARBON 220 5% 1/4W R124 1-247-804-11 S CARBON 75 5% 1/4W R125 1-249-397-11 S CARBON 22 5% 1/4W R126 1-249-397-11 S CARBON 22 5% 1/4W		
C105 C106 C107 C108	1-162-208-31 s CERAMIC 24PF 5% 50V 1-162-208-31 s CERAMIC 24PF 5% 50V 1-161-485-00 s CERAMIC 0.1uF 50V 1-124-584-00 s ELECT 100uF 20% 10V 1-566-513-11 s CONNECTOR. FPC 13P	R127 1-249-397-11 s CARBON 22 5% 1/4W R128 1-249-397-11 s CARBON 22 5% 1/4W R129 1-249-397-11 s CARBON 22 5% 1/4W R130 1-249-397-11 s CARBON 22 5% 1/4W R131 1-249-397-11 s CARBON 22 5% 1/4W		
CN5 CN6 CN7	1-566-513-11 s CONNECTOR, FPC 13P 1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE 1-569-170-11 o CONNECTOR, COAXIAL, MALE 1-506-748-11 o CONNECTOR, DIN 96P, MALE	R132 1-249-397-11 s CARBON 22 5% 1/4W R133 1-249-397-11 s CARBON 22 5% 1/4W R134 1-249-397-11 s CARBON 22 5% 1/4W		
CNX2	1-506-748-11 o CONNECTOR, DIN 96P, MALE	R135 1-249-397-11 s CARBON 22 5% 1/4W R136 1-249-441-11 s CARBON 100K 5% 1/4W		
CNY2 D3	1-505-748-11 0 CONNECTOR, DIN 95P, MALE 8-719-421-11 S DIODE IN15RP	R137 1-249-441-11 s CARBON 100K 5% 1/4W R138 1-249-441-11 s CARBON 100K 5% 1/4W		
IC1 IC100 IC101 IC102	1-506-748-11 o CONNECTOR, DIN 96P, MALE 8-719-421-11 s DIODE LN15BP 8-759-916-14 s IC SN74HC04N 8-759-948-40 s IC DS1000M-50 8-759-244-84 s IC TC74AC574P 8-759-244-84 s IC TC74AC574P	R139 1-249-441-11 s CARBON 100K 5% 1/4W R140 1-249-441-11 s CARBON 100K 5% 1/4W R141 1-249-441-11 s CARBON 100K 5% 1/4W R142 1-249-441-11 s CARBON 100K 5% 1/4W		
L100	1-408-417-00 s INDUCTOR 47uH	R143 1-249-441-11 s CARBON 100K 5% 1/4W R144 1-249-441-11 s CARBON 100K 5% 1/4W		
Q100 Q101	8-729-119-78 s TRANSISTOR 2SC2785-HFE 8-729-119-76 s TRANSISTOR 2SA1115P	R145 1-249-441-11 s CARBON 100K 5% 1/4W R146 1-249-441-11 s CARBON 100K 5% 1/4W		
R1 R2 R3 R4 R5	1-249-417-11 s CARBON 1K 5% 1/4W 1-249-411-11 s CARBON 330 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W	\$1 1-571-146-11 s SWITCH, ROTARY \$2 1-554-399-21 s SWITCH, TOGGLE \$3 1-554-399-21 s SWITCH, TOGGLE		
R6 R7 R8 R9 R10	1-249-417-11 s CARBON 1K 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W 1-249-441-11 s CARBON 100K 5% 1/4W 1-249-417-11 s CARBON 1K 5% 1/4W 1-249-397-11 s CARBON 22 5% 1/4W			
R11 R100 R101 R102 R103	1-249-397-11 s CARBON 22 5% 1/4W 1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W			
R104 R105 R106	1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W 1-215-428-00 s METAL 2K 1% 1/6W			

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MAT-4 BOARD
Ref. No. or Q'ty Part No.
                                          SP Description
                  A-8271-812-A o MOUNTED CIRCUIT BOARD, MAT-4
3-166-184-01 o LEVER, PC BOARD
3-166-185-01 s NUT, PLATE
3-179-150-01 o BRACKET, EXTENSION
7-622-207-05 s N 2.6, TYPE 2
 1pc
 2pcs
2pcs
 2pcs
                  7-626-320-11 s PIN, SPRING 3X8
7-628-254-40 s SCREW +PS 2.6X12
7-682-903-01 s SCREW +PWH 3X5
7-682-947-01 s SCREW +PSW 3X6
1pc
 6pcs
 6pcs
8pcs
                  7-682-948-01 s SCREW +PSW 3X8
8pcs
8pcs
                  7-685-104-19 s SCREW +P 2X6 TYPE2 SLIT
C1
                  1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
CNA2
                  1-750-066-11 o CONNECTOR, BB 50P, FEMALE
CNB2
                  1-750-066-11 o CONNECTOR, BB 50P, FEMALE
CND2
                  1-750-066-11 o CONNECTOR, BB 50P, FEMALE
CNX1
                  1-565-207-21 s CONNECTOR, DIN 128P, MALE
CNY1
                  1-565-207-21 s CONNECTOR, DIN 128P, MALE
CNZ1
                  1-506-748-11 o CONNECTOR, DIN 96P, MALE
D1
                  8-719-800-76 s DIODE 1SS226
F1
             △1-576-031-11 s FUSE 10A 125V
                 8-759-505-27 s IC SN75ALS195J
8-759-945-30 s IC SN75ALS194N
8-759-505-00 s IC CXD8052Q
8-759-505-00 s IC CXD8052Q
8-759-057-32 s IC CAT35C104K
IC2
IC3
IC4
IC5
                 8-759-505-06 s IC CXD8058Q
8-759-505-06 s IC CXD8058Q
8-759-244-71 s IC TC74AC540F
8-759-244-71 s IC TC74AC540F
ĪČ8
IC9
IC10
IC11
                 8-759-505-00 s IC CXD80520
                 8-759-244-75 s IC TC74AC541F
8-759-244-75 s IC TC74AC541F
8-759-244-71 s IC TC74AC540F
8-759-244-71 s IC TC74AC540F
8-759-926-82 s IC SN74HC574ANS
IC13
ĪC14
IC15
IC16
IC17
                 8-759-926-76 s IC SN74HC540NS
8-759-927-46 s IC SN74HC00NS
8-759-234-77 s IC TC4S66F
8-759-947-47 s IC SN74LS594N
IC18
IC19
IC20
IC21
IC22
                 8-759-945-30 s IC SN75ALS194N
                 8-759-243-66 s IC TC74ACT74F
8-759-160-12 s IC CXD8827Q
8-759-160-12 s IC CXD8827Q
8-759-926-42 s IC SN74HC238NS
8-759-244-15 s IC TC74AC240F
IC23
IC24
IC25
IC26
IC27
                 8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
8-759-518-05 s IC CXD8300Q
IC201
IC202
IC203
IC204
IC205
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(MAT-4 BOARD)

CN20

Ref. No. or Q'ty Part No. SP Description

TH1 1-809-179-11 s THERMISTOR 1k 102AT-2

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MB-482 BOARD

Ref. No. or Q'ty Part No. SP Description

2pcs 3-178-213-21 s SCREW +B 3X10 6pcs 3-179-120-01 o SUPPORT 1pc 3-179-121-01 o BRACKET, AC INLET 2pcs 3-711-649-01 s STUD 80pcs 7-622-207-05 s N 2.6, TYPE 2

80pcs 7-628-254-20 s SCREW +PS 2.6X8 6pcs 7-682-249-09 s SCREW +F 3X10 10pcs 7-682-249-09 s SCREW +F 3X10 10pcs 7-682-903-01 s SCREW +PWH 3X5 8pcs 1-580-355-11 o HOUSING, DIN 96P

CNAT1 $\textstyle{A}$1-580-375-21 o INLET, AC 3P, MALE
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--PENDING--- S CONNECTOR 20P, MALE --PENDING--- S CONNECTOR 20P, MALE △-PENDING--- S CONNECTOR 8P, MALE

8-759-518-05 s IC CXD8300Q

IC206

MIX-8 BO	ARD	(MIX-8 BC	DARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
1pc 2pcs 2pcs 2pcs 2pcs 2pcs	A-8271-810-A O MOUNTED CIRCUIT BOARD, MIX-8 3-166-184-01 O LEVER, PC BOARD 3-166-185-01 S NUT, PLATE 7-622-207-05 S N 2.6, TYPE 2 7-626-320-11 S PIN, SPRING 3X8	IC116 IC117 IC118 IC120 IC122	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
6pcs 8pcs	7-628-254-40 s SCREW +PS 2.6X12 7-682-948-01 s SCREW +PSW 3X8 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC124 IC201 IC203	8-759-320-87 s IC HM63021P-28 8-759-505-05 s IC CXD8055 8-759-505-05 s IC CXD8055
C1 C2	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC204 IC206	8-759-504-91 s IC CXD8062Q 8-759-244-85 s IC TC74AC574F
CNX1	1-565-207-21 s CONNECTOR, DIN 128P, MALE 1-565-207-21 s CONNECTOR, DIN 128P, MALE 1-506-748-11 o CONNECTOR, DIN 96P, MALE	IC207 IC208	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
CNY1	1-565-207-21 s CONNECTOR, DIN 128P, MALE	IC209 IC210	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
CNZ1	1-506-748-11 o CONNECTOR, DIN 96P, MALE	IC211	8-759-926-82 s IC SN74HC574ANS
COP1 COP2	1-564-948-21 o PIN, SHORTING 1-564-948-21 o PIN, SHORTING 1-562-579-21 s PLUG, SHORTING 1-562-579-21 s PLUG, SHORTING	IC212 IC213 IC214	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-320-87 s IC HM63021P-28
COR1 COR2	1-562-579-21 s PLUG, SHORTING 1-562-579-21 s PLUG, SHORTING	IC215 IC216	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
D1	1-562-579-21 s PLUG, SHORTING 8-719-800-76 s DIODE 1SS226 A1-576-031-11 s FUSE 10A 125V 8-759-505-27 s IC SN75ALS195J	IC217 IC218	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
F1 /	∆1-576-031-11 s FUSE 10A 125V	IC220 IC222	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC1 IC2 IC3 IC4	8-759-505-27 s IC SN75ALS195J 8-759-945-30 s IC SN75ALS194N 8-759-505-00 s IC CXD8052Q 8-759-720-48 s IC CAT35C104HP 8-759-234-77 s IC TC4866F	IC224 IC300 IC302	8-759-320-87 s IC HM63021P-28 8-759-505-05 s IC CXD8055 8-759-505-05 s IC CXD8055
ĬC5	8-759-234-77 s IC TC4S66F	IC306 IC307	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
IC7 IC8 IC20 IC21 IC22	8-759-244-75 s IC TC74AC541F 8-759-244-71 s IC TC74AC540F 8-759-926-82 s IC SN74HC574ANS 8-759-243-09 s IC TC74AC74F 8-759-320-87 s IC HM63021P-28	IC308 IC312 IC313 IC314	8-759-244-85 s IC TC74AC574F 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-504-97 s IC CXD8190Q
IC30	8-759-244-71 s IC TC74AC540F 8-759-244-15 s IC TC74AC240F	IC321	8-759-504-97 s IC CXD8190Q
IC31 IC32 IC33 IC34	8-759-244-71 s IC TC74AC540F 8-759-244-71 s IC TC74AC540F 8-759-244-75 s IC TC74AC541F	IC324 IC326 IC328	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC35 IC36	8-759-244-15 s IC TC74AC240F 8-759-926-23 s IC SN74HC163NS	IC334	8-759-505-03 s IC CXD8066
IC37 IC51 IC52	8-759-243-09 s IC TC74AC74F 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q	IC336 IC338 IC342 IC343	8-759-505-04 s IC CXD8067 8-759-504-97 s IC CXD8190Q 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
IC54 IC55 IC101	8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q 8-759-505-05 s IC CXD8055	R8 R9	1-216-619-11 s METAL, CHIP 47 0.5% 1/10W 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W
IC103 IC104	8-759-505-05 s IC CXD8055 8-759-504-91 s IC CXD8062Q	TH1	1-809-179-11 s THERMISTOR 1k 102AT-2
IC106 IC107 IC108 IC109 IC110	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS		
IC111 IC112 IC113 IC114 IC115	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28		

MIX-8(A)	BOARD	(MIX-8()	a) BOARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No.	Part No. SP Description
2pcs 2pcs 6pcs 2pcs	A-8271-889-A O MOUNTED CIRCUIT BOARD, MIX-8 (A) 3-166-184-01 O LEVER, PC BOARD 3-166-185-01 S NUT, PLATE 7-621-259-75 S SCREW +P 2.6X12 7-622-207-05 S N 2.6, TYPE 2	IC114 IC115 IC116 IC117 IC118	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
2pcs 7	7-626-320-11 s PIN, SPRING 3X8 7-682-948-01 s SCREW +PSW 3X8 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC119 IC120	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
C1 1 C2 1	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	IC121 IC122 IC123	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
CNX1 1	1-565-207-21 s CONNECTOR, DIN 128P, MALE	IC124 IC125	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
CNY1 1	1-565-207-21 s CONNECTOR, DIN 128P, MALE	IC126 IC127	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
CNZ1 1	1-506-748-11 o CONNECTOR, DIN 96P, MALE	IC128	8-759-926-82 s IC SN74HC574ANS
COP1 1 COP2 1	1-564-948-21 o PIN, SHORTING 1-564-948-21 o PIN, SHORTING	IC129 IC130	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
COR1 1 COR2 1	1-564-948-21 0 PIN, SHORTING 1-564-948-21 0 PIN, SHORTING 1-562-579-21 s PLUG, SHORTING 1-562-579-21 s PLUG, SHORTING 8-719-800-76 s DIODE 1SS226 1-576-031-11 s FUSE 10A 125V 8-759-505-27 s IC SN75ALS195J 8-759-945-30 s IC SN75ALS194N	IC201 IC203 IC204	8-759-505-05 s IC CXD8055 8-759-505-05 s IC CXD8055 8-759-504-91 s IC CXD8062Q
D1 8	8-719-800-76 s DIODE 1SS226	IC205	8-759-504-91 s IC CXD8062Q 8-759-244-85 s IC TC74AC574F
F1 <u></u> <u> </u>	1-576-031-11 s FUSE 10A 125V	IC207 IC208	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F
IC1 8 IC2 8	3-759-505-27 s IC SN75ALS195J 3-759-945-30 s IC SN75ALS194N	IC209	8-759-926-82 s IC SN74HC574ANS
IC4 8	3-759-720-48 s IC CADSUDZU 3-759-720-48 s IC CAT35C104HP	10210 10211	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
IC8 8	3-759-244-75 s IC TC74AC541F 3-759-244-71 s IC TC74AC540F	IC214	8-759-320-87 s IC HM63021P-28
IC21 8	3-759-234-77 s IC TC4S66F 3-759-244-75 s IC TC74AC541F 3-759-244-71 s IC TC74AC540F 3-759-926-82 s IC SN74HC574ANS 3-759-243-09 s IC TC74AC74F 3-759-320-87 s IC HM63021P-28 3-759-244-71 s IC TC74AC540F 3-759-244-71 s IC TC74AC540F 3-759-244-71 s IC TC74AC540F	IC215 IC216 IC217	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC30 8 IC31 8	3-759-244-71 s IC TC74AC54OF 3-759-244-15 s IC TC74AC24OF	IC219	8-759-320-87 s IC HM63021P-28
IC32 8 IC33 8	3-759-244-71 s IC TC74AC54OF	IC221 IC222	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC35 8 IC36 8	3-759-244-15 s IC TC74AC24OF 3-759-926-23 s IC SN74HC163NS	IC223 IC224	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28
IC37 8 IC51 8	3-759-244-75 s IC TC74AC541F 3-759-244-15 s IC TC74AC240F 3-759-926-23 s IC SN74HC163NS 3-759-243-09 s IC TC74AC74F 3-759-505-06 s IC CXD8058Q 3-759-505-06 s IC CXD8058Q 3-759-505-06 s IC CXD8058Q 3-759-505-06 s IC CXD8058Q	IC225 IC226 IC227	8-759-320-87 s IC HM63021P-28 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
IC53 8 IC54 8	8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q	IC228 IC229	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
IC55 8	3-759-505-06 s IC CXD8058Q	IC230 IC300	8-759-926-82 s IC SN74HC574ANS 8-759-505-05 s IC CXD8055
IC103 8	3-759-505-05 s IC CXD8055	IC302 IC306	8-759-505-05 s IC CXD8055 8-759-244-85 s IC TC74AC574F
IC105 8	3-759-504-91 s IC CXD8062Q 3-759-504-91 s IC CXD8062Q	IC307	8-759-244-85 s IC TC74AC574F
IC107 8	3-759-244-85 s IC TC74AC574F 3-759-244-85 s IC TC74AC574F 3-759-244-85 s IC TC74AC574F	IC308 IC309 IC310	8-759-244-85 s IC TC74AC574F 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS
	3-759-244-65 S IC 1074AC574F 3-759-926-82 S IC SN74HC574ANS	IC310 IC311 IC312	8-759-926-82 S IC SN74HC574ANS 8-759-926-82 S IC SN74HC574ANS 8-759-926-82 S IC SN74HC574ANS
IC110 8	3-759-926-82 s IC SN74HC574ANS 3-759-926-82 s IC SN74HC574ANS	IC313	8-759-926-82 s IC SN74HC574ANS
IC112 8	3-759-926-82 s IC SN74HC574ANS 3-759-926-82 s IC SN74HC574ANS	IC314 IC320 IC321	8-759-926-82 s IC SN74HC574ANS 8-759-504-97 s IC CXD8190Q 8-759-504-97 s IC CXD8190Q

(MIX-8(A	A) BOARD)	MT-90 BOARD
Ref. No.	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description
IC322 IC323 IC324 IC325 IC326	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28	2pcs 3-166-184-01 o LEVER, PC BOARD 1pc 3-179-230-01 o JOINT 2pcs 3-655-139-21 o SHAFT, FLANGE, 1.2 2pcs 3-703-074-00 s CAP 3, SHAFT 3pcs 7-682-903-01 s SCREW +PWH 3X5
IC327	8-759-320-87 s IC HM63021P-28	16pcs 7-685-104-19 s SCREW +P 2X6 TYPE2 SLIT
IC328 IC329 IC334 IC335	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-505-03 s IC CXD8066 8-759-505-03 s IC CXD8066	CNA1 1-750-250-11 o CONNECTOR, BB 50P, MALE CNA2 1-750-068-11 o CONNECTOR, BB 50P, FEMALE
IC336	8-759-505-04 s IC CXD8067	CNB1 1-750-250-11 o CONNECTOR, BB 50P, MALE CNB2 1-750-066-11 o CONNECTOR, BB 50P, FEMALE
IC337 IC338 IC339 IC342	8-759-505-04 s IC CXD8067 8-759-504-97 s IC CXD8190Q 8-759-948-31 s IC CXD1319AQ 8-759-244-85 s IC TC74AC574F	CND1 1-750-250-11 o CONNECTOR, BB 50P, MALE CND2 1-750-066-11 o CONNECTOR, BB 50P, FEMALE
IC343	8-759-244-85 s IC TC74AC574F	IC101 8-759-505-07 s IC CXD8059 IC102 8-759-505-07 s IC CXD8059 IC103 8-759-504-90 s IC CXD8063Q
R8 R9	1-216-619-11 s METAL, CHIP 47 0.5% 1/10W 1-216-619-11 s METAL, CHIP 47 0.5% 1/10W	IC104 8-759-504-90 s IC CXD8063Q IC105 8-759-504-97 s IC CXD8190Q
TH1	1-809-179-11 s THERMISTOR 1k 102AT-2	IC106 8-759-504-91 s IC CXD8062Q IC107 8-759-505-08 s IC CXD8060Q IC108 8-759-504-99 s IC CXD8065 IC109 8-759-057-32 s IC CAT35C104K IC110 8-759-239-23 s IC TC74HC86AF

OUT-3 BOARD (OUT-3 BOARD)			
Ref. No. or Q'ty 1	Part No. SP Description	Ref. No. or Q'ty Part No. SP Description	
1pc	A-8271-811-A O MOUNTED CIRCUIT BOARD, OUT-3 3-166-184-01 O LEVER, PC BOARD 3-166-185-01 S NUT, PLATE 7-622-207-05 S N 2.6, TYPE 2 7-626-320-11 S PIN, SPRING 3X8		
6pcs 7	7-628-254-40 s SCREW +PS 2.6X12 7-682-948-01 s SCREW +PSW 3X8	CN19D2 1-563-752-11 o SOCKET, SIL 10P CN19E2 1-563-752-11 o SOCKET, SIL 10P	
700	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-126-346-41 s ELECT 100UF 20% 6.3V 1-126-346-41 s ELECT 100UF 20% 6.3V 1-126-346-41 s ELECT 100UF 20% 6.3V	CNX1 1-565-207-21 s CONNECTOR, DIN 128P, MALE CNY1 1-565-207-21 s CONNECTOR, DIN 128P, MALE D1 8-719-800-76 s DIODE 1SS226	
C61 1 C70 1 C71 1	1-126-346-41 S ELECT 100UF 20% 6.3V 1-163-239-11 S CERAMIC, CHIP 33PF 5% 50V 1-163-239-11 S CERAMIC, CHIP 33PF 5% 50V	F1	
CN10A2 1 CN10B2 1 CN10C2 1 CN10D2 1 CN10E2 1	L-563-752-11 O SOCKET, SIL 10P L-563-752-11 O SOCKET, SIL 10P	IC1 8-759-505-27 s IC SN75ALS195J IC2 8-759-945-30 s IC SN75ALS194N IC3 8-759-234-77 s IC TC4S66F IC4 8-759-244-71 s IC TC74AC540F IC5 8-759-505-00 s IC CXD8052Q	
CN11A2 1 CN11B2 1 CN11C2 1 CN11D2 1 CN11E2 1	1-563-752-11 O SOCKET, SIL 10P 1-563-752-11 O SOCKET, SIL 10P 1-563-752-11 O SOCKET, SIL 10P 1-563-752-11 O SOCKET, SIL 10P 1-563-752-11 O SOCKET, SIL 10P	IC6 8-759-013-95 s IC MC74HC589F IC7 8-759-013-95 s IC MC74HC589F IC9 8-759-244-75 s IC TC74AC541F IC10 8-759-032-59 s IC MC74HC595AF IC11 8-759-947-47 s IC SN74LS594N	
CN12A2 1 CN12B2 1 CN12C2 1 CN12D2 1 CN12E2 1	-563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P		
CN13A2 1 CN13B2 1 CN13C2 1 CN13D2 1 CN13E2 1	563-752-11 o SOCKET, SIL 10P 563-752-11 o SOCKET, SIL 10P	IC18 8-759-948-40 s IC DS1000M-50 IC19 8-759-505-06 s IC CXD8058Q IC20 8-759-244-71 s IC TC74AC540F IC22 8-759-012-02 s IC MC10H124M IC23 8-759-505-06 s IC CXD8058Q	
CN14A2 1 CN14B2 1 CN14C2 1 CN14D2 1	-563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P	IC24 8-759-323-08 s IC HM63021FP-28 IC25 8-759-323-08 s IC HM63021FP-28 IC26 8-759-012-13 s IC MC10H125M IC27 8-759-012-13 s IC MC10H125M IC28 8-759-012-13 s IC MC10H125M	
CN15U2 1 CN15D2 1	-563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P	IC29 8-759-245-77 s IC TC74ACT574F IC30 8-759-245-77 s IC TC74ACT574F IC32 8-759-926-50 s IC SN74HC251ANS IC33 8-759-926-50 s IC SN74HC251ANS IC34 8-759-926-42 s IC SN74HC238NS	
CN16B2 1 CN16C2 1 CN16D2 1	-563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P	IC35 8-759-926-42 s IC SN74HC238NS IC36 8-759-243-09 s IC TC74AC74F IC37 8-759-504-97 s IC CXD8190Q IC38 8-759-057-32 s IC CAT35C104K IC39 8-759-505-02 s IC CXD8053Q	
CN17B2 1 CN17C2 1 CN17D2 1	-563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P -563-752-11 o SOCKET, SIL 10P	IC40 8-759-505-02 s IC CXD8053Q IC41 8-759-504-97 s IC CXD8190Q IC42 8-759-518-79 s IC MB88325PF IC43 8-759-927-46 s IC SN74HC00NS IC44 8-759-243-19 s IC TC7SU04F	
CN18B2 1	-563-752-11 o SOCKET, SIL 10P	IC45 8-759-505-00 s IC CXD8052Q IC46 8-759-076-03 s IC MB88346BPF IC47 8-759-012-02 s IC MC10H124M	

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(OUT-3 BOARD)
 Ref. No.
 or Q'ty Part No.
                                                    SP Description
                      8-759-012-02 s IC MC10H124M
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
IC48
IC101
 IC102
 IC103
                       8-759-244-85 s IC TC74AC574F
 IC104
                      8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
 IC105
 IC106
 IC107
 IC108
                      8-759-244-85 s IC TC74AC574F
IC109
                      8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
IC110
IC111
IC112
IC113
IC114
                      8-759-244-85 s IC TC74AC574F
                     8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
IC115
IC116
IC117
IC118
IC119
                     8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
IC120
IC121
IC122
IC123
                      8-759-244-85 s IC TC74AC574F
IC124
                     8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-244-85 s IC TC74AC574F
8-759-504-95 s IC CXD8026Q
IC125
IC126
IC127
IC128
IC129
                      8-759-504-95 s IC CXD8026Q
IC130
                      8-759-244-71 s IC TC74AC540F
                     1-421-370-00 s COIL, CHOKE
1-421-370-00 s COIL, CHOKE
L2
                     8-729-216-22 s TRANSISTOR 2SA1162
8-729-216-22 s TRANSISTOR 2SA1162
Q2
Q3
                      8-729-216-22 s TRANSISTOR 2SA1162
                     1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W
R32
R33
R60
R61
R62
                     1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-218-776-11 s METAL, CHIP 1M 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W
R63
R64
R65
R88
R871
                     1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W
R872
R873
R874
R875
R876
                     1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W
R877
R878
R879
R880
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1-809-179-11 s THERMISTOR 1k 102AT-2

TH1

(OUT-3 BOARD)

Ref. No. or Q'ty Part No. SP Description

X1 1-567-927-11 s RESONATOR, CERAMIC 16.00MHz

RE-96 BOARD	(RE-96 BOARD)	
Ref. No. or Q'ty Part No. SP Description	Ref. No. or Q'ty Part No. SP Description	
1pc A-8271-814-A 0 MOUNTED CIRCUIT BOARD, RE-96 18pcs 2-280-622-21 0 SUPPORT (M3X10), HEXAGON 3pcs 3-179-123-01 0 PAD, THERMAL	CN16 1-506-702-11 o CONNECTOR, ILG 3P, MALE CN17 1-564-241-00 o CONNECTOR 4P, MALE	
3pcs 3-179-163-01 0 HEAT SINK	CP1 1-466-411-11 s CONVERTER, DC-DC CP2 1-466-411-11 s CONVERTER, DC-DC CP3 1-466-411-11 s CONVERTER, DC-DC	
2pcs 7-682-547-04 s SCREW +B3X6 18pcs 7-682-549-04 s SCREW +B 3X10 18pcs 7-682-948-01 s SCREW +PSW 3X8 4pcs 7-685-871-01 s SCREW +BVTT 3X6 (S)	D1 8-719-026-50 s DIODE 10E4 D2 8-719-026-50 s DIODE 10E4 D3 8-719-912-20 s DIODE 1SS120 D4 8-719-912-20 s DIODE 1SS120	
2pcs 3-331-713-01 0 HEAT SINK (B) 2pcs 7-682-547-04 s SCREW +B3X6 18pcs 7-682-549-04 s SCREW +B 3X10 18pcs 7-682-948-01 s SCREW +PSW 3X8 4pcs 7-685-871-01 s SCREW +PSW 3X8 (S) C1	D5 8-719-525-40 s DIODE S25VB40 D6 8-719-230-04 s DIODE 30D4 D7 8-719-912-20 s DIODE 1SS120 D8 8-719-912-20 s DIODE 1SS120	
C6	D1 8-719-912-20 S DIOME 155120 D11 8-729-021-04 S THYRISTOR CR6CM-8	
C11 A1-161-744-81 s CERAMIC 0.01uF 400V	D14 8-719-920-05 s DIODE SLP281C-50	
C12 A1-101-744-01 S CERAMIC 0.01uF 400V C13 A1-161-744-81 S CERAMIC 0.01uF 400V	F1	
C15 1-125-470-11 s ELECT 560uF 20% 400V C16 1-125-470-11 s ELECT 560uF 20% 400V	IC1 8-759-908-15 s IC TL431CLP IC2 8-759-158-16 s IC TLC372CP	
C17	L1 1-409-309-00 s COIL, CHOKE 72uH LF1 A1-424-402-11 s FILTER, LINE	
C20 1-125-470-11 s ELECT 560uF 20% 400V C21 1-125-470-11 s ELECT 560uF 20% 400V	PH1 8-719-820-89 s PHOTOCOUPLER TLP560J	
C22 1-125-470-11 s ELECT 560uF 20% 400V C31 1-161-896-11 s CERAMIC 0.22uF 50V C32 A1-164-320-11 s CERAMIC 0.001uF 20% 400V C33 1-162-765-11 s CERAMIC 0.001uF 5% 50V	Q4 8-729-012-83 S TRANSISTOR 2SK679A Q5 8-729-012-83 S TRANSISTOR 2SK679A Q6 8-729-012-83 S TRANSISTOR 2SK679A	
C33	R1	
C39 1-162-765-11 s CERAMIC 0.001uF 5% 50V C40 1-124-520-11 s ELECT 3300uF 20% 10V C41 1-161-900-11 s CERAMIC 1uF 50V C42 1-161-896-11 s CERAMIC 0.22uF 50V C43 1-161-896-11 s CERAMIC 0.22uF 50V	R6	
C44 1-161-896-11 S CERAMIC 0.22uF 50V CN1	R11 1-214-901-81 s METAL 33K 1% 1/2W R12 1-214-896-81 s METAL 20K 1% 1/2W R13 1-214-888-00 s METAL 10K 1% 1/2W R14 \(\Delta \)1-207-975-00 s WIREWOUND 1K 10% 8W R15 1-249-422-11 s CARBON 2.7K 5% 1/4W	
CN5 A1-564-321-00 O CONNECTOR, VH 2P, MALE CN6 A1-564-321-00 O CONNECTOR, VH 2P, MALE CN7 1-564-242-00 O CONNECTOR 5P, MALE CN8 1-564-242-00 O CONNECTOR 5P, MALE CN9 1-564-242-00 O CONNECTOR 5P, MALE	R16 1-249-422-11 s CARBON 2.7K 5% 1/4W R17 1-249-422-11 s CARBON 2.7K 5% 1/4W R18 1-249-417-11 s CARBON 1K 5% 1/4W R19 1-215-403-00 s METAL 180 1% 1/6W R20 1-215-403-00 s METAL 180 1% 1/6W	
CN10 1-564-242-00 0 CONNECTOR 5P, MALE CN11 1-564-242-00 0 CONNECTOR 5P, MALE CN12 1-564-242-00 0 CONNECTOR 5P, MALE CN13 1-506-468-11 s CONNECTOR 3P, MALE CN14 1-506-702-11 0 CONNECTOR, ILG 3P, MALE	R21 1-215-403-00 S METAL 180 1% 1/6W R22 1-215-445-00 S METAL 10K 1% 1/6W R23 1-215-445-00 S METAL 10K 1% 1/6W R24 1-215-445-00 S METAL 10K 1% 1/6W R25 1-215-445-00 S METAL 10K 1% 1/6W	
CN15 1-506-702-11 0 CONNECTOR, ILG 3P, MALE	R26 1-215-445-00 s METAL 10K 1% 1/6W	

(RE-96 BOARI))
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Ref. No. or Q'ty Part No. SP Description

R27 1-215-445-00 s METAL 10K 1% 1/6W

RV1 1-237-500-21 s RES, ADJ METAL 1K RV2 1-237-500-21 s RES, ADJ METAL 1K RV3 1-237-500-21 s RES, ADJ METAL 1K

TH1 1-809-179-11 s THERMISTOR 1k 102AT-2

VDR1 1-806-356-00 s VARISTOR ENB461-10A

SD-30 BOARD

	Part No. SP Description	
	3-166-184-01 o LEVER, PC BOARD 7-622-207-05 s N 2.6, TYPE 2 7-626-320-11 s PIN, SPRING 3X8 7-628-254-40 s SCREW +PS 2.6X12	
C9	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	
C10	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	
C105	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V	
C106	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V	
C217	1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V	
C218	1-163-127-00 s CERAMIC, CHIP 270PF 5% 50V	
C223	1-163-222-11 s CERAMIC, CHIP 5PF 50V	
C224	1-163-222-11 s CERAMIC, CHIP 5PF 50V	
C225	1-163-222-11 s CERAMIC, CHIP 5PF 50V	
C310	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V	
C311	1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V	
C400	1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V	
C403	1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V	
C410	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V	
C411	1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V	
C419	1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V	
C420	1-164-232-11 s CERAMIC 0.01uF 10% 100V	
C425	1-135-216-11 s TANTALUM, CHIP 10uF 20% 10V	
C435	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V	
C436	1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V	
C445	1-124-287-00 s ELECT 10uF 20% 10V	
C446	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	
C449	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V	
C460	1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V	
C461	1-135-211-11 s TANTALUM, CHIP 6.8uF 20% 6.3V	
	1-163-085-00 s CERAMIC, CHIP 2PF 50V	
CN5	1-566-513-11 s CONNECTOR, FPC 13P	
CN6	1-563-323-11 s CONNECTOR, D-SUB 9P, FEMALE	
CN7	1-569-170-11 o CONNECTOR, COAXIAL, MALE	
CNX2	1-506-748-11 o CONNECTOR, DIN 96P, MALE	
CNY2	1-506-748-11 o CONNECTOR, DIN 96P, MALE	
CV400	1-141-423-61 s CAP, TRIMMER 20PF	
D3	8-719-421-11 s DIODE LN15BP	
D200	8-719-800-76 s DIODE 1SS226	
D400	8-719-800-76 s DIODE 1SS226	
D402	8-719-800-76 s DIODE 1SS226	
FL400	1-236-174-11 s FILTER, LOW-PASS	
IC1	8-759-925-74 s IC TC74HC04NS	
IC2	8-759-057-32 s IC CAT35C104K	
IC100	8-759-948-40 s IC DS1000M-50	
IC101	8-759-244-85 s IC TC74AC574F	
IC102	8-759-244-85 s IC TC74AC574F	
IC200	8-759-244-85 s IC TC74AC574F	
IC201	8-759-244-85 s IC TC74AC574F	
IC202	8-759-504-97 s IC CXD8190Q	
IC203	8-759-505-02 s IC CXD8053Q	
IC204	8-759-505-02 s IC CXD8053Q	
IC205	8-759-099-78 s IC CXD8338AQ	
IC206	8-759-012-02 s IC MC10H124M	
IC207	8-759-012-02 s IC MC10H124M	
IC208	8-759-012-02 s IC MC10H124M	

ית ספ-תם)	Onto)
Ref. No. or Q'ty	Part No. SP Description
IC209	8-741-601-02 s IC SBX1601A
IC210	8-752-050-69 s IC CXA1389AQ
IC211	8-759-012-13 s IC MC10H125M
IC212	8-759-505-06 s IC CXD8058Q
IC213	8-759-925-74 s IC TC74HC04NS
IC300	8-759-244-15 s IC TC74AC240F
IC301	8-759-244-85 s IC TC74AC574F
IC302	8-759-925-74 s IC TC74HC04NS
IC303	8-759-505-06 s IC CXD8058Q
IC304	8-759-233-44 s IC TC74HC595AF
IC305	8-759-518-79 s IC MB88325PF
IC306	8-759-076-03 s IC MB88346BPF
IC307	8-759-506-92 s IC LT1009CZ
IC308	8-759-908-17 s IC TL082CPS
IC309	8-759-927-46 s IC SN74HC00NS
IC310	8-759-243-19 s IC TC7SU04F
IC400	8-759-996-34 s IC LM360M
IC401	8-759-239-55 s IC TC74HC123AF
IC402	8-759-948-40 s IC DS1000M-50
IC403	8-759-948-40 s IC DS1000M-50
IC404	8-759-971-71 s IC CXD1312Q
IC405	8-759-243-09 s IC TC74AC74F
IC409	8-759-099-78 s IC CXD8338AQ
IC410	8-759-421-09 s IC MN6557AS
IC412	8-759-098-17 s IC LT1191CS8
IC413	8-752-015-81 s IC CX20158
IC414	8-759-505-06 s IC CXD8058Q
IC416	8-752-306-51 s IC CX23065A
IC417	8-759-927-46 s IC SN74HC00NS
IC418	8-752-332-67 s IC CXD1217M
IC419	8-759-925-74 s IC TC74HC04NS
L100	1-408-785-21 s INDUCTOR CHIP 47UH
L200	1-408-777-00 s INDUCTOR, CHIP 10uH
L201	1-410-312-11 s INDUCTOR 0.22uH
L202	1-410-358-41 s INDUCTOR 0.39uH
L400	1-408-777-00 s INDUCTOR, CHIP 10uH
L401	1-408-797-11 s INDUCTOR CHIP 470UH
L402	1-408-777-00 s INDUCTOR, CHIP 10UH
L403	1-408-777-00 s INDUCTOR, CHIP 10UH
L404	1-408-777-00 s INDUCTOR, CHIP 10UH
L405	1-408-777-00 s INDUCTOR, CHIP 10UH
L406	1-408-777-00 s INDUCTOR, CHIP 10uH
Q100	8-729-175-72 s TRANSISTOR 2SC2757-T33
Q101	8-729-112-65 s TRANSISTOR 2SA1462-Y33
Q200	8-729-175-72 s TRANSISTOR 2SC2757-T33
Q201	8-729-175-72 s TRANSISTOR 2SC2757-T33
Q204	8-729-175-72 s TRANSISTOR 2SC2757-T33
D2NR	8-729-112-65 s TRANSISTOR 2SA1462-Y33 8-729-112-65 s TRANSISTOR 2SA1462-Y33 8-729-112-65 s TRANSISTOR 2SA1462-Y33 8-729-112-65 s TRANSISTOR 2SA1462-Y33 8-729-112-65 s TRANSISTOR 2SA1462-Y33
Q401	8-729-175-72 s TRANSISTOR 2SC2757-T33
Q402	8-729-175-72 s TRANSISTOR 2SC2757-T33
R120 R123 R251	1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-634-11 s METAL, CHIP 200 0.5% 1/10W 1-216-663-11 s METAL, CHIP 3.3K 0.5% 1/10W

(SD-30 BOARD)

Ref. No. or Q'ty	Part No. SP Description
R252 R253 R254 R256 R257	1-216-676-11 s METAL, CHIP 11K 0.5% 1/10W 1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W
R258 R262 R263 R264 R321	1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-623-11 s METAL, CHIP 68 0.5% 1/10W 1-216-643-11 s METAL, CHIP 470 0.5% 1/10W
R326 R327 R328 R405 R407	1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-654-11 s METAL, CHIP 1.3K 0.5% 1/10W 1-218-776-11 s METAL, CHIP 1M 0.5% 1/10W 1-216-620-11 s METAL, CHIP 51 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W
R412 R413 R414 R415 R430	1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W
R431 R432 R433 R434 R435	1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-631-11 s METAL, CHIP 150 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W
R439 R440 R441 R442 R443	1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W 1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W 1-218-776-11 s METAL, CHIP 1M 0.5% 1/10W 1-216-640-11 s METAL, CHIP 360 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W
R446 R462 R463	1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W 1-216-653-11 s METAL, CHIP 1.2K 0.5% 1/10W 1-216-668-11 s METAL, CHIP 5.1K 0.5% 1/10W
S1 S2 S3 S400	1-571-146-11 s SWITCH, ROTARY 1-554-399-21 s SWITCH, TOGGLE 1-554-399-21 s SWITCH, TOGGLE 1-554-399-21 s SWITCH, TOGGLE
VC0400 VC0401 VC0402	1-577-181-11 s VCO, CRYSTAL 28.63636MHz 1-577-089-11 s VCO, CRYSTAL 14.318180MHz 1-577-294-11 s VCO, CRYSTAL 14.187500MHz
X300	1-567-927-11 s RESONATOR, CERAMIC 16.00MHz

SD-31 BOARD			SG-210 BOARD		
Ref. No. or Q'ty	Part No. SP Description	Ref. No.	Part No. SP Description		
1pc	9-911-849-XX o CUSHION	1pc 2pcs	A-8271-815-A o MOUNTED CIRCUIT BOARD, SG-210 3-166-185-01 s NUT, PLATE		
C26 C27	1-163-263-11 s CERAMIC, CHIP 330PF 5% 50V 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V	6pcs 10pcs	7-622-207-05 s N 2.6, TYPE 2 7-628-254-40 s SCREW +PS 2.6X12		
CNA1	1-750-074-11 o PIN, SIL 10P	C104 C105	1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V		
CNB1	1-750-074-11 o PIN, SIL 10P	C106 C107	1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V		
CNC1	1-750-074-11 o PIN, SIL 10P	C108	1-164-232-11 s CERAMIC 0.01uF 10% 100V		
CND1	1-750-074-11 o PIN, SIL 10P	C111 C112	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V		
CNE1	1-750-074-11 o PIN, SIL 10P	C119 C120	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V		
IC1 IC2 IC3 IC4	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-099-78 s IC CXD8338AQ 8-752-202-90 s IC CX22029	C200 C205 C209	1-124-287-00 s ELECT 10uF 20% 10V		
ĬC5	8-759-057-32 s IC CAT35C104K	C212 C301	1-163-125-00 s CERAMIC, CHIP 220PF 5% 50V 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V		
IC6	8-741-601-02 s IC SBX1601A	C307	1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V		
L1 L2	1-412-026-11 s INDUCTOR, CHIP 10H	C308	1-135-091-00 s TANTALUM, CHIP 1uF 10% 16V		
L3 L4	1-410-358-41 s INDUCTOR 0.39UH 1-410-312-11 s INDUCTOR 0.22UH	CNO1 CNO2	1-750-065-11 o CONNECTOR, BB 60P, FEMALE 1-750-065-11 o CONNECTOR, BB 60P, FEMALE		
Q1 Q2 Q3 Q4 Q5	8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-216-22 s TRANSISTOR 2SA1162 8-729-143-46 s TRANSISTOR 2SC3356-R24	CNX1 CNX2	1-565-207-21 s CONNECTOR, DIN 128P, MALE 1-563-341-11 o CONNECTOR, DIN 96P, FEMALE		
Q4 Q5	8-729-143-46 s TRANSISTOR 2SC3356-R24 8-729-143-46 s TRANSISTOR 2SC3356-R24	CNY1 CNY2	1-565-207-21 s CONNECTOR, DIN 128P, MALE 1-563-341-11 o CONNECTOR, DIN 96P, FEMALE		
Q6 Q7	8-729-143-46 s TRANSISTOR 2SC3356-R24 8-729-143-46 s TRANSISTOR 2SC3356-R24	CNZ1	1-506-748-11 o CONNECTOR, DIN 96P, MALE		
6 8	8-729-143-46 s TRANSISTOR 2SC3356-R24 8-729-143-46 s TRANSISTOR 2SC3356-R24	D1 D2 D200	8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226 8-719-800-76 s DIODE 1SS226		
R1 R2	1-216-629-11 s METAL, CHIP 120 0.5% 1/10W 1-216-629-11 s METAL, CHIP 120 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W	D201	8-719-800-76 s DIODE 1SS226		
R4 R9 R11	1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-674-11 s METAL, CHIP 9.1% 0.5% 1/10W 1-216-647-11 s METAL, CHIP 680 0.5% 1/10W	F2 A	A1-576-031-11 s FUSE 10A 125V A1-576-031-11 s FUSE 10A 125V		
R12	1-216-644-11 s METAL, CHIP 510 0.5% 1/10W	IC101	8-759-945-30 s IC SN75ALS194N 8-759-505-27 s IC SN75ALS195J		
R13 R14 R17 R18	1-216-683-11 s METAL, CHIP 22K 0.5% 1/10W 1-216-686-11 s METAL, CHIP 30K 0.5% 1/10W 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W 1-216-615-11 s METAL, CHIP 33 0.5% 1/10W	IC102 IC103 IC104	8-759-234-77 s IC TC4S66F 8-759-057-32 s IC CAT35C104K 8-759-947-47 s IC SN74LS594N		
R19	1-216-615-11 s METAL, CHIP 33 0.5% 1/10W	IC105 IC106	8-759-505-00 s IC CXD8052Q 8-759-244-71 s IC TC74AC540F		
R20 R21 R22	1-216-615-11 s METAL, CHIP 33 0.5% 1/10W 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W 1-216-625-11 s METAL, CHIP 82 0.5% 1/10W	IC107 IC108 IC109	8-759-233-44 s IC TC74HC595AF 8-759-244-75 s IC TC74AC541F 8-759-927-46 s IC SN74HC00NS		
R33	1-216-630-11 s METAL, CHIP 130 0.5% 1/10W	IC110	8-759-239-55 s IC TC74HC123AF		
R34	1-216-630-11 s METAL, CHIP 130 0.5% 1/10W	IC111 IC112 IC113 IC200	8-759-926-42 s IC SN74HC238NS 8-759-076-03 s IC MB88346BPF 8-759-013-95 s IC MC74HC589F 8-752-015-81 s IC CX20158		
		IC201 IC202 IC203 IC204	8-759-987-27 s IC LM1881M 8-759-996-34 s IC LM360M 8-759-230-99 s IC TC74HC4053AF 8-759-908-92 s IC TL084CNS		
		IC205	8-759-996-34 s IC LM360M		
		IC206 IC300	8-759-506-92 s IC LT1009CZ 8-759-948-40 s IC DS1000M-50		

(SG-210	BOARD)	SG-211	BOARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No or Q'ty	Part No. SP Description
IC301 IC302 IC303 IC304 IC305	8-759-239-55 s IC TC74HC123AF 8-759-948-40 s IC DS1000M-50 8-759-971-71 s IC CXD1312Q 8-759-243-09 s IC TC74AC74F 8-759-244-15 s IC TC74AC240F	1pc 2pcs 10pcs 6pcs 6pcs	A-8271-892-A O MOUNTED CIRCUIT BOARD, SG-211 3-166-185-01 S NUT, PLATE 7-621-259-75 S SCREW +P 2.6X12 7-622-207-05 S N 2.6, TYPE 2 7-682-903-01 S SCREW +PWH 3X5
IC304 IC305 IC306 IC308 IC309 IC400 IC401 IC402 IC403 IC404 IC405 IC406 IC407 IC408 IC410 IC411 IC412 IC413 IC414 IC700 IC701 IC702 IC703 IC703 IC703	8-759-243-09 S IC TC74AC74F	6pcs 6pcs 11pcs C104 C105 C106 C107 C108 C111 C112 C119 C120 C200 C205 C212 C222 C223 C224 C225 C228 C230 C232 C234 C316 CN01 CN02 CNX1 CNX2 CNX2 CNX2 CNX2 CNX2 CNX2 CNX2 CNX2	7-622-207-05 s N 2.6, TYPE 2 7-682-903-01 s SCREW +PWH 3X5 7-682-948-01 s SCREW +PSW 3X8 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-164-232-11 s CERAMIC 0.01uF 10% 100V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-275-11 s CERAMIC, CHIP 0.001uF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-239-11 s CERAMIC, CHIP 33PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 150PF 5% 50V 1-163-121-00 s CERAMIC, CHIP 150PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 27PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-275-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 100PF 5% 50V 1-163-237-11 s CERAMIC, CHIP 100PF 5% 50V 1-16
R308 R309 R310 TH1 VCO1	1-216-647-11 s METAL, CHIP 680 0.5% 1/10W 1-216-687-11 s METAL, CHIP 33K 0.5% 1/10W 1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W 1-809-179-11 s THERMISTOR 1k 102AT-2 1-577-181-11 s VCO, CRYSTAL 28.63636MHz	IC103 IC104 IC105 IC106 IC107 IC108 IC109	8-759-057-32 s IC CAT35C104K 8-759-947-47 s IC SN74LS594N 8-759-505-00 s IC CXD8052Q 8-759-244-71 s IC TC74AC540F 8-759-233-44 s IC TC74HC595AF 8-759-244-75 s IC TC74AC541F 8-759-927-46 s IC SN74HC00NS
	•	IC110 IC111 IC112 IC200 IC201	8-759-239-55 s IC TC74HC123AF 8-759-926-42 s IC SN74HC238NS 8-759-013-95 s IC MC74HC589F 8-752-015-81 s IC CX20158 8-759-987-27 s IC LM1881M

(SG-211	BOARD)	WKG-10 I	BOARD
Ref. No. or Q'ty	Part No. SP Description	Ref. No.	Part No. SP Description
IC203 IC204 IC205 IC206 IC207	8-759-230-99 s IC TC74HC4053AF 8-759-908-92 s IC TL084CNS 8-759-996-34 s IC LM360M 8-759-239-58 s IC TC74HC221AF 8-759-239-58 s IC TC74HC221AF	1pc 1pc 2pcs 1pc 2pcs	A-8271-806-A C MOUNTED CIRCUIT BOARD, WKG-10 3-166-184-01 C LEVER, PC BOARD 3-166-185-01 S NUT, PLATE 3-179-150-01 C BRACKET, EXTENSION 7-622-207-05 S N 2.6, TYPE 2
IC208 IC301 IC303 IC304 IC305	8-759-239-58 s IC TC74HC221AF 8-759-239-55 s IC TC74HC123AF 8-752-306-51 s IC CX23065A 8-759-243-09 s IC TC74AC74F 8-759-244-15 s IC TC74AC240F	1pc 6pcs 3pcs 8pcs 8pcs	7-626-320-11 s PIN, SPRING 3X8 7-628-254-40 s SCREW +PS 2.6X12 7-682-903-01 s SCREW +PWH 3X5 7-682-948-01 s SCREW +PSW 3X8 7-685-104-19 s SCREW +P 2X6 TYPE2 SLIT
IC306 IC307 IC308 IC309 IC400	8-759-244-15 s IC TC74AC240F 8-759-244-15 s IC TC74AC240F 8-759-244-15 s IC TC74AC240F 8-759-244-15 s IC TC74AC240F 8-759-505-06 s IC CXD8058Q	C56 CN101 CN102 CN103 CN201	1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V 1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P
IC401 IC402 IC403	8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q	CN202 CN203	1-695-640-31 s CONNECTOR, FPC 13P 1-695-640-31 s CONNECTOR, FPC 13P
IC404 IC405	8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q	CNA2	1-750-066-11 o CONNECTOR, BB 50P, FEMALE
IC406 IC407	8-759-505-06 s IC CXD8058Q 8-759-243-50 s IC TC74AC08F	CNB2	1-750-066-11 o CONNECTOR, BB 50P, FEMALE
IC408 IC412	8-759-243-62 s IC TC74AC32F 8-759-244-85 s IC TC74AC574F	CNC2	1-750-066-11 o CONNECTOR, BB 50P, FEMALE
IC413	8-759-244-85 s IC TC74AC574F	CND2	1-750-066-11 o CONNECTOR, BB 50P, FEMALE
IC700 IC701 IC702	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F	CNI101 CNI102 CNI201 CNI202	1-526-816-21 o SOCKET, IC (DP) 24P 1-526-816-21 o SOCKET, IC (DP) 24P 1-526-816-21 o SOCKET, IC (DP) 24P 1-526-816-21 o SOCKET, IC (DP) 24P
L200 L201 L202	1-408-785-21 s INDUCTOR, CHIP 47UH 1-408-785-21 s INDUCTOR, CHIP 47UH 1-408-777-00 s INDUCTOR, CHIP 10UH		1-565-207-21 s CONNECTOR, DIN 128P, MALE
Q200	8-729-175-72 s TRANSISTOR 2SC2757-T33		1-565-207-21 s CONNECTOR, DIN 128P, MALE
Q201	8-729-175-72 s TRANSISTOR 2SC2757-T33		1-506-748-11 o CONNECTOR, DIN 96P, MALE
R107 R120 R202	1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W 1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W		8-719-800-76 s DIODE 1SS226 A1-576-031-11 s FUSE 10A 125V
R203 R204 R206 R210 R212 R213	1-218-661-11 s METAL, CHIP 2.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-216-667-11 s METAL, CHIP 4.7K 0.5% 1/10W 1-218-772-11 s METAL 680K 0.5% 1/10W 1-218-776-11 s METAL 1M 0.5% 1/10W	IC1 IC2 IC3 IC4	8-759-505-00 s IC CXD8052Q 8-759-505-27 s IC SN75ALS195J 8-759-945-30 s IC SN75ALS194N 8-759-057-32 s IC CAT35C104K 8-759-234-77 s IC TC4S66F
R222	1-218-776-11 s METAL 1M 0.5% 1/10W 1-216-637-11 s METAL, CHIP 270 0.5% 1/10W	IC6 IC7	8-759-244-75 s IC TC74AC541F 8-759-926-82 s IC SN74HC574ANS
R226 R228 R229 R231	1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W	IC8 IC9	8-759-244-71 s IC TC74AC540F 8-759-244-71 s IC TC74AC540F 8-759-244-77 s IC TC74ACT541F
R232 R233 R301 R310	1-216-695-11 s METAL, CHIP 68K 0.5% 1/10W 1-216-685-11 s METAL, CHIP 27K 0.5% 1/10W 1-216-677-11 s METAL, CHIP 12K 0.5% 1/10W 1-216-693-11 s METAL, CHIP 56K 0.5% 1/10W	IC12 IC13 IC14	8-759-244-75 s IC TC74AC541F 8-759-925-74 s IC TC74HC04NS 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q 8-759-925-74 s IC TC74HC04NS
TH1	1-809-179-11 s THERMISTOR 1k 102AT-2		8-759-244-71 s IC TC74AC540F 8-750-230-23 s IC TC74AC86AF
VC01	1-577-597-11 s VCO, CRYSTAL 27.00000MHz	IC18 IC19	8-759-239-23 s IC TC74HC86AF 8-759-927-46 s IC SN74HC00NS 8-759-925-90 s IC SN74HC74NS 8-759-704-27 s IC WS57C45-SIN1-V1.0, EPROM
		IC102	8-759-704-28 s IC WS57C45-SIN2-V1.0, EPROM

(WKG-10	BOARD)	WP-37 BC	DARD
Ref. No.	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
IC103 IC104 IC105 IC106 IC107	8-759-504-91 s IC CXD8062Q 8-759-505-02 s IC CXD8053Q 8-759-505-07 s IC CXD8059 8-759-505-07 s IC CXD8059 8-759-504-90 s IC CXD8063Q	16pcs 2pcs 1pc 2pcs 3pcs	1-526-653-21 s SOCKET, IC (DP) 14P 3-166-184-01 o LEVER, PC BOARD 3-179-230-01 o JOINT 7-626-320-11 s PIN, SPRING 3X8 7-682-903-01 s SCREW +PWH 3X5
IC108 IC109	8-759-504-90 s IC CXD8063Q 8-759-504-97 s IC CXD8190Q	8pcs	7-685-104-19 s SCREW +P 2X6 TYPE2 SLIT
IC110 IC111	8-759-504-90 s IC CXD8063Q 8-759-504-90 s IC CXD8063Q	CNA1	1-750-250-11 o CONNECTOR, BB 50P, MALE
IC112	8-759-504-91 s IC CXD8062Q	CNB1	1-750-250-11 o CONNECTOR, BB 50P, MALE
IC113 IC114	8-759-505-08 s IC CXD8060Q 8-759-244-85 s IC TC74AC574F	CNC1	1-750-250-11 o CONNECTOR, BB 50P, MALE
IC115 IC116	8-759-244-85 s IC TC74AC574F 8-759-505-09 s IC CYDROS1	CND1	1-750-250-11 o CONNECTOR, BB 50P, MALE
IC117	8-759-926-82 s IC SN74HC574ANS	CNI417 CNI418	1-526-660-21 o SOCKET, IC 32P 1-526-660-21 o SOCKET, IC 32P
IC118 IC119 IC120 IC121 IC122	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-244-81 s IC TC74AC564F 8-759-244-81 s IC TC74AC564F	IC101 IC102 IC103 IC104	8-759-505-00 s IC CXD8052Q 8-759-057-32 s IC CAT35C104K 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q
IC123 IC124 IC201 IC202 IC203	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-704-27 s IC WS57C45-SIN1-V1.0, EPROM 8-759-704-28 s IC WS57C45-SIN2-V1.0, EPROM 8-759-504-91 s IC CXD8062Q	IC106 IC107 IC108 IC109	8-759-244-71 s IC TC74AC540F 8-759-925-74 s IC TC74HC04NS 8-759-927-46 s IC SN74HC00NS 8-759-926-82 s IC SN74HC574ANS 8-759-926-23 s IC SN74HC163NS
IC205 IC206 IC207	8-759-505-07 s IC CXD8059 8-759-505-07 s IC CXD8059 8-759-504-90 s IC CXD8063Q	IC202 IC203 IC204	8-759-926-23 s IC SN74HC163NS 8-759-925-72 s IC SN74HC02NS 8-759-925-74 s IC TC74HC04NS 8-759-926-23 s IC SN74HC163NS
IC209 IC210 IC211 IC212 IC213	8-759-504-90 s IC CXD8063Q 8-759-504-97 s IC CXD8190Q 8-759-504-90 s IC CXD8063Q 8-759-504-90 s IC CXD8063Q 8-759-504-91 s IC CXD8062Q 8-759-505-08 s IC CXD8060Q	IC207 IC208 IC209 IC210 IC211	8-759-926-23 s IC SN74HC163NS 8-759-926-23 s IC SN74HC163NS 8-759-926-23 s IC SN74HC163NS 8-759-926-18 s IC SN74HC157ANS 8-759-926-18 s IC SN74HC157ANS 8-759-925-90 s IC SN74HC74NS
IC214 IC215 IC216 IC217 IC218	8-759-244-85 s IC TC74AC574F 8-759-244-85 s IC TC74AC574F 8-759-505-09 s IC CXD8061 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS		8-759-925-72 s IC SN74HC02NS 8-759-242-51 s IC TC74AC86F 8-759-242-51 s IC TC74AC86F 8-759-242-51 s IC TC74AC86F 8-759-925-99 s IC SN74HC109NS
IC219 IC220 IC221 IC222 IC223	8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-244-81 s IC TC74AC564F 8-759-244-81 s IC TC74AC564F 8-759-926-82 s IC SN74HC574ANS	IC219 IC220 IC221 IC222 IC223	8-759-927-23 s IC SN74HCT574NS 8-759-927-23 s IC SN74HCT574NS 8-759-926-82 s IC SN74HC574ANS 8-759-926-82 s IC SN74HC574ANS 8-759-927-23 s IC SN74HC574ANS
IC224	8-759-926-82 s IC SN74HC574ANS	IC224	8-759-927-23 s IC SN74HCT574NS
TH1	1-809-179-11 s THERMISTOR 1k 102AT-2	IC301 IC302 IC303 IC304	8-759-926-24 s IC SN74HC164NS 8-759-926-24 s IC SN74HC164NS 8-759-926-24 s IC SN74HC164NS 8-759-926-24 s IC SN74HC164NS
		IC305 IC306 IC307 IC308 IC309	8-759-242-51 s IC TC74AC86F 8-759-519-26 s IC MSM514221A-4RS 8-759-519-26 s IC MSM514221A-4RS 8-759-519-26 s IC MSM514221A-4RS 8-759-926-82 s IC SN74HC574ANS
		IC310 IC311 IC312	8-759-504-91 s IC CXD8062Q 8-759-504-91 s IC CXD8062Q 8-759-504-91 s IC CXD8062Q

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XPT-3 BOARD
(WP-37 BOARD)
                                                                                                                                      Ref. No. or Q'ty Part No.
Ref. No.
                                                                                                                                                                                   SP Description
or Q'ty Part No.
                                            SP Description
                                                                                                                                                          3-166-184-01 o LEVER, PC BOARD
3-166-185-01 s NUT, PLATE
7-622-207-05 s N 2.6, TYPE 2
7-626-320-11 s PIN, SPRING 3X8
7-628-254-40 s SCREW +PS 2.6X12
                  8-759-323-08 s IC HM63021FP-28
8-759-323-08 s IC HM63021FP-28
8-759-926-82 s IC SN74HC574ANS
8-759-504-90 s IC CXD8063Q
                                                                                                                                        2pcs
IC313
IC314
IC315
                                                                                                                                        2pcs
                                                                                                                                       2pcs
1C316
                                                                                                                                        2pcs
                   8-759-927-23 s IC SN74HCT574NS
                                                                                                                                       6pcs
IC317
                  8-759-927-23 s IC SN74HCT574NS
8-759-927-23 s IC SN74HCT574NS
8-759-927-23 s IC SN74HCT574NS
8-759-926-82 s IC SN74HC574ANS
8-759-926-82 s IC SN74HC574ANS
                                                                                                                                                          7-682-948-01 s SCREW +PSW 3X8
                                                                                                                                     · 8pcs
IC318
IC319
IC320
                                                                                                                                                          1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-163-251-11 s CERAMIC, CHIP 100PF 5% 50V
1-164-161-11 s CERAMIC, CHIP 0.0022UF 10% 100V
1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
1-164-161-11 s CERAMIC, CHIP 0.0022UF 10% 100V
                                                                                                                                       C60
IC401
                                                                                                                                       C61
                                                                                                                                       C111
IC402
                                                                                                                                       C113
                  8-759-926-82 s IC SN74HC574ANS
8-759-926-82 s IC SN74HC574ANS
8-759-504-91 s IC CXD8062Q
8-759-504-91 s IC CXD8062Q
8-759-927-23 s IC SN74HCT574NS
IC403
IC404
IC405
IC406
                                                                                                                                       C211
                                                                                                                                                          1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V

1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V

1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V

1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V

1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
                                                                                                                                       C213
                                                                                                                                       C311
                                                                                                                                       C313
IC407
                                                                                                                                       Č411
                  8-759-927-23 s IC SN74HCT574NS
8-759-927-23 s IC SN74HCT574NS
8-759-927-23 s IC SN74HCT574NS
8-759-551-75 s IC WS27C010L-UMSC-V1.1, EPROM
                                                                                                                                       C413
IC408
IC409
                                                                                                                                                          1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V 1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V 1-164-161-11 s CERAMIC, CHIP 0.0022uF 10% 100V
IC410
IC417
                                                                                                                                        C513
                   8-759-551-76 s IC WS27C010L-LMSC-V1.1, EPROM
                                                                                                                                        C611
IC418
                                                                                                                                       C613
                  8-759-927-23 s IC SN74HCT574NS
8-759-927-23 s IC SN74HCT574NS
8-759-927-23 s IC SN74HCT574NS
                                                                                                                                       C711
IC505
 IC506
                                                                                                                                                          1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
1-164-161-11 s CERAMIC, CHIP 0.0022UF 10% 100V
1-163-243-11 s CERAMIC, CHIP 47PF 5% 50V
                                                                                                                                       C713
IC511
                                                                                                                                        C811
IC512
                   8-759-927-23 s IC SN74HCT574NS
                                                                                                                                        C813
                                                                                                                                                           1-569-170-11 o CONNECTOR, COAXIAL, MALE
1-569-170-11 o CONNECTOR, COAXIAL, MALE
                                                                                                                                        CN101
                                                                                                                                        CN201
                                                                                                                                                          1-569-170-11 O CONNECTOR, COAXIAL, MALE
1-569-170-11 O CONNECTOR, COAXIAL, MALE
1-569-170-11 O CONNECTOR, COAXIAL, MALE
                                                                                                                                        CN301
                                                                                                                                        CN401
                                                                                                                                        CN501
                                                                                                                                                           1-569-170-11 o CONNECTOR, COAXIAL, MALE 1-569-170-11 o CONNECTOR, COAXIAL, MALE 1-569-170-11 o CONNECTOR, COAXIAL, MALE
                                                                                                                                        CN601
                                                                                                                                        CN701
                                                                                                                                        CN801
                                                                                                                                                           1-565-207-21 s CONNECTOR, DIN 128P, MALE
                                                                                                                                        CNX1
                                                                                                                                                           1-565-207-21 s CONNECTOR, DIN 128P, MALE
                                                                                                                                        CNY1
                                                                                                                                                           1-506-748-11 o CONNECTOR, DIN 96P, MALE
                                                                                                                                        CNZ1
                                                                                                                                                           8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
                                                                                                                                        D12
                                                                                                                                        D13
                                                                                                                                        D101
                                                                                                                                        D102
                                                                                                                                        D201
                                                                                                                                                           8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
                                                                                                                                        D202
                                                                                                                                        D301
                                                                                                                                        D302
                                                                                                                                        D401
                                                                                                                                                            8-719-800-76 s DIODE 1SS226
                                                                                                                                        D402
                                                                                                                                                            8-719-800-76 s DIODE 1SS226
                                                                                                                                        D501
                                                                                                                                         D502
                                                                                                                                                            8-719-800-76 s DIODE 1SS226
                                                                                                                                                            8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
                                                                                                                                         D601
                                                                                                                                         D602
                                                                                                                                                            8-719-800-76 s DIODE 1SS226
                                                                                                                                         D701
                                                                                                                                                            8-719-800-76 s DIODE 1SS226
8-719-800-76 s DIODE 1SS226
                                                                                                                                         D702
                                                                                                                                         D801
                                                                                                                                                             8-719-800-76 s DIODE 1SS226
                                                                                                                                         D802
                                                                                                                                                         ▲1-576-031-11 s FUSE 10A 125V
                                                                                                                                                         ₹1-576-031-11 s FUSE 10A 125V
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F2

(XPT-3 B	DARD)	(XPT-3 BO	DARD)
Ref. No. or Q'ty	Part No. SP Description	Ref. No. or Q'ty	Part No. SP Description
FB902	1-535-178-00 s BEAD, FERRITE	IC505 IC506	8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28
FB904 FB905	1-535-178-00 s BEAD, FERRITE 1-535-178-00 s BEAD, FERRITE 1-535-178-00 s BEAD, FERRITE 1-535-178-00 s BEAD, FERRITE	IC507 IC509 IC510	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L
FB907	1-535-178-00 s BEAD, FERRITE	TC602	8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MB766P
IC12 IC20	8-759-545-50 s IC CXD8052Q 8-759-244-71 s IC TC74AC540F	IC606	8-759-001-25 s IC MC10125L 8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28
IC21 IC22	8-759-244-71 s IC TC74AC540F 8-759-244-75 s IC TC74AC541F	IC609	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L
IC23 IC24 IC25	8-759-244-85 s IC TC74AC574F 8-759-505-06 s IC CXD8058Q 8-759-505-06 s IC CXD8058Q	IC701 IC702	8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MB766P
	8-759-505-06 s IC CXD8058Q 8-759-234-77 s IC TC4S66F	IC705	8-759-001-25 s IC MC10125L 8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28
IC31 IC32	8-759-032-59 s IC MC74HC595AF 8-759-057-32 s IC CAT35C104K	IC707	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L
IC33 IC35	O TO ORO OO D TO ME AND COLUMN	IC710 IC801	8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A
IC36 IC37	8-759-243-06 s IC TC74AC04F 8-759-505-00 s IC CXD8052Q	IC802 IC804	8-759-948-53 s IC MB766P 8-759-001-25 s IC MC10125L
IC101 IC102 IC104	8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MB766P 8-759-001-25 s IC MC10125L	IC805 IC806	8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28
IC105	8-759-071-82 s IC CXD8364Q	IC807 IC809	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L
IC106 IC107 IC109	8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7532F-TF85L	IC810 IC902	8-759-035-93 s IC TC7S32F-TE85L 8-759-513-68 s IC CXD8258Q
IC110	8-759-035-93 s IC TC7S32F-TE85L	IC903 IC904	8-759-513-68 s IC CXD8258Q 8-759-513-68 s IC CXD8258Q
IC201 IC202 IC204	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MB766P 8-759-001-25 s IC MC10125L 8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MR766P	10905 10906 10907	8-759-513-68 s IC CXD8258Q 8-759-513-68 s IC CXD8258Q 8-759-513-68 s IC CXD8258Q
IC205 IC206	8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28	L2	1-421-370-00 s COIL, CHOKE
IC207 IC209	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7532F-TF85L	L101 L201 L301	1-412-026-11 s INDUCTOR, CHIP 1uH 1-412-026-11 s INDUCTOR, CHIP 1uH 1-412-026-11 s INDUCTOR, CHIP 1uH
IC210 IC301	8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A	L401	1-412-026-11 s INDUCTOR, CHIP 1uH
IC302 IC304	8-759-948-53 s IC MB766P 8-759-001-25 s IC MC10125L	L501 L601 L701	1-412-026-11 s INDUCTOR, CHIP 1uH 1-412-026-11 s INDUCTOR, CHIP 1uH 1-412-026-11 s INDUCTOR, CHIP 1uH
IC305 IC306			1-412-026-11 s INDUCTOR, CHIP 1UH
IC307 IC309	8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L	Q11 Q101 Q102	8-729-216-22 s TRANSISTOR 2SA1162 8-729-143-46 s TRANSISTOR 2SC3356-R24 8-729-601-58 s TRANSISTOR 2SC3053-C
IC310 IC401	8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A	Q104 Q201	8-729-601-58 S TRANSISTOR 2SC3053-C 8-729-143-46 S TRANSISTOR 2SC3356-R24
IC402 IC404 IC405	8-759-948-53 S IC MB766P 8-759-001-25 S IC MC10125L 8-759-071-82 S IC CXD83649	Q202 Q204	8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-601-58 s TRANSISTOR 2SC3053-C
IC406 IC407	8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MB766P 8-759-001-25 s IC MC10125L 8-759-071-82 s IC CXD8364Q 8-759-320-87 s IC HM63021P-28 8-759-320-87 s IC HM63021P-28 8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L 8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MB766P 8-759-901-25 s IC MC10125L	Q301 Q302 Q304	8-729-143-46 s TRANSISTOR 2SC3356-R24 8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-601-58 s TRANSISTOR 2SC3053-C
IC407 IC409 IC410	8-759-035-93 s IC TC7S32F-TE85L 8-759-035-93 s IC TC7S32F-TE85L	Q401	8-729-143-46 s TRANSISTOR 2SC3356-R24
IC501 IC502	8-741-602-11 s IC SBX1602A 8-759-948-53 s IC MR786P	Q402 Q404 Q501	8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-143-46 s TRANSISTOR 2SC3356-R24
IC502	8-759-001-25 s IC MC10125L	Q502	8-729-601-58 s TRANSISTOR 2SC3053-C

(XPT-3 BOARD)

Ref. No. or Q'ty	Part No. SP Description
Q504 Q601 Q602 Q604 Q701	8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-143-46 s TRANSISTOR 2SC3056-R24 8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-143-46 s TRANSISTOR 2SC3356-R24
Q704 Q801	8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-143-46 s TRANSISTOR 2SC3356-R24 8-729-601-58 s TRANSISTOR 2SC3053-C 8-729-601-58 s TRANSISTOR 2SC3053-C
R13 R17 R90 R91 R105	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-295-00 s METAL, CHIP 0 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R106 R107 R108 R152 R205	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R206 R207 R208 R252 R305	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R306 R307 R308 R352 R405	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R406 R407 R408 R452 R505	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R506 R507 R508 R552 R605	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R606 R607 R608 R652 R705	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2K 0.5% 1/10W
R706 R707 R708 R752 R805	1-216-679-11 s METAL, CHIP 15% 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5% 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13% 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4% 0.5% 1/10W 1-216-659-11 s METAL, CHIP 2.2% 0.5% 1/10W
R806 R807 R808 R852	1-216-679-11 s METAL, CHIP 15K 0.5% 1/10W 1-216-655-11 s METAL, CHIP 1.5K 0.5% 1/10W 1-216-678-11 s METAL, CHIP 13K 0.5% 1/10W 1-216-660-11 s METAL, CHIP 2.4K 0.5% 1/10W
TH10	1-809-179-11 s THERMISTOR 1k 102AT-2

9-5. PACKING MATERIALS & SUPPLIED ACCESSORIES (For DVS-6000/6000C)

				_
PACKING N	MATERIALS &	SUPPLIED	ACCESSORIE	S
Ref. No. or Q'ty	Part No.	SP Desc	ription	
For DVS-6000/6000C				
1 A 1 A 1 1	2-990-242-	01 s HOLD	TOR, AC PLUG POWER STOR, CONNECTER (B), PLUG POLYETHYLE	G 3P-2P TOR TERMINATION G NE
1	3-701-648-	00 s BAG,	POLYETHYLE	NE

9-6. PACKING MATERIALS & SUPPLIED ACCESSORIES (For BKDS-6010)

PACKING MATERIALS & SUPPLIED ACCESSORIES

or Q'ty Part No.

SP Description

For BKDS-6010

⚠1-506-411-21 s ADAPTOR, AC PLUG 3P-2P ⚠1-557-377-11 s CORD, POWER 2-990-242-01 s HOLDER (B), PLUG 3-678-081-01 o TIP (1), SW 3-678-082-01 o TIP (2), SW 1

9-7. OPTIONAL FIXTURE

OPTIONAL FIXTURE

Part No.

SP Description 3-167-578-01 0 NUT, PLATE 3-167-579-01 0 LEVER, PC BOARD 3-167-586-01 0 PLATE, SHIELD 7-621-773-87 s SCREW +B 2.6X10 7-626-320-11 s PIN, SPRING 3X8 7-682-903-01 s SCREW +PHW 3X5 7-682-948-01 s SCREW +PSW 3X8 7-682-949-01 s SCREW +PSW 3X10 1-565-207-21 s CONNECTOR, DIN 128P, MALE 1-565-205-12 o CONNECTOR, DIN 128P, FEMALE 1-565-207-21 s CONNECTOR, DIN 128P, MALE 1-565-205-12 o CONNECTOR, DIN 128P, FEMALE 1-506-748-11 s CONNECTOR, DIN 96P, MALE 1-563-341-11 s CONNECTOR, DIN 96P, FEMALE

J-6186-270-A o CABLE, DIGITAL TP J-6264-360-A o CABLE, BNC-UM 1pc 1pc

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